

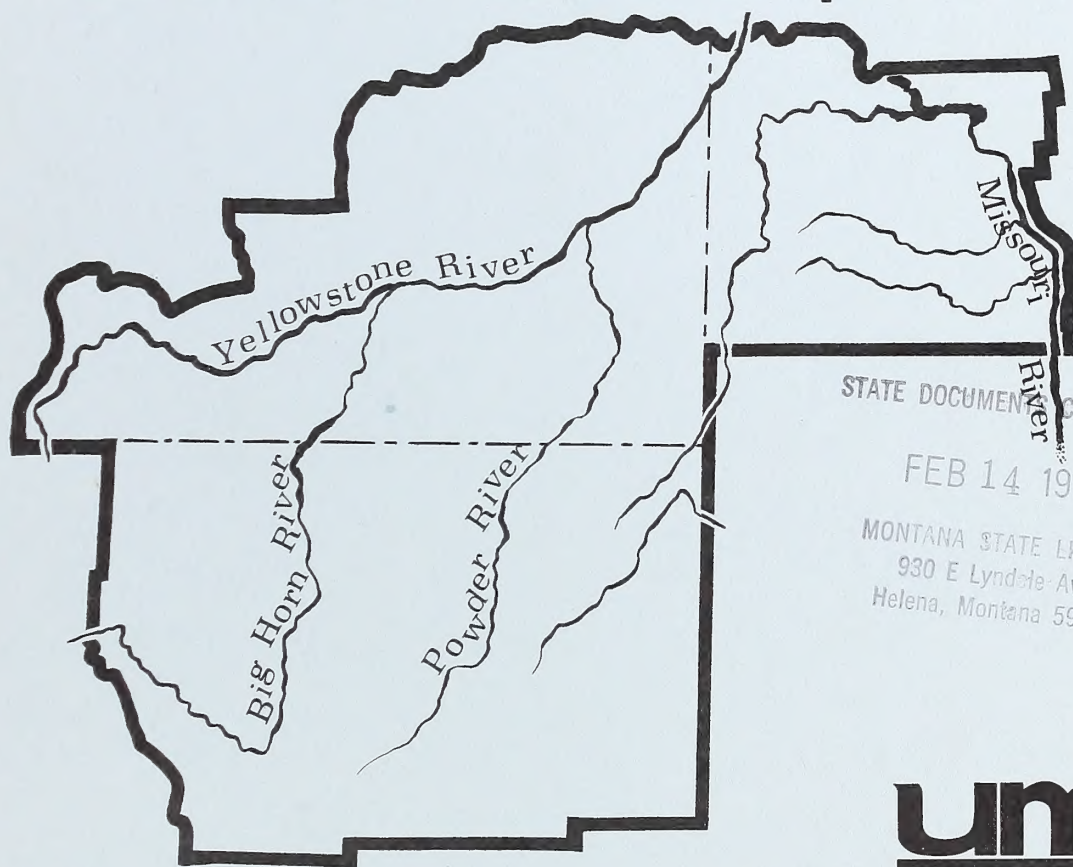
S  
551.483  
Ulyrd  
1976

PLEASE RETURN

# *Yellowstone River Basin and Adjacent Coal Fields*

## DEPLETION STUDY

1975 Level of Development



STATE DOCUMENT COLLECTION

FEB 14 1979

MONTANA STATE LIBRARY  
930 E Lyndale Ave.  
Helena, Montana 59601

**um**  
REGION



U.S. DEPARTMENT OF THE INTERIOR



BUREAU OF RECLAMATION

**November  
1976**

Montana State Library



3 0864 1006 4068 2

YELLOWSTONE RIVER BASIN AND ADJACENT COAL AREAS

DEPLETION STUDY

1975 LEVEL OF DEVELOPMENT

Prepared by

Hydrology Branch  
Planning Division  
Upper Missouri Regional Office  
Bureau of Reclamation  
Billings, Montana

November 1976



## TABLE OF CONTENTS

Introduction

Table

Drainage Basin Map

Montana

Yellowstone River near Livingston  
Stillwater River near Absarokee  
Clarks Fork at Edgar  
Yellowstone River at Billings  
Bighorn River near St. Xavier  
Tongue River at Miles City  
Yellowstone River at Miles City  
Powder River near Locate  
Yellowstone River near Sidney

North Dakota

Little Missouri River near Watford City  
Knife River at Hazen  
Missouri River at Bismarck  
Heart River near Mandan  
Cannonball River at Breien

Wyoming

Wind River below Boysen Reservoir  
Greybull River at Basin  
Shoshone River at Byron  
Powder River at Arvada  
Cheyenne River below Angostura  
Belle Fourche River at State Line

South Dakota

Missouri River at Pierre



## YELLOWSTONE RIVER BASIN AND ADJACENT COALFIELDS

### DEPLETION STUDY 1975 LEVEL OF DEVELOPMENT

The Missouri River Basin Comprehensive Framework Study, published in 1971, set up the basic planning objectives for the Yellowstone River Basin. Since that time, a national energy crisis has shown the need to investigate all potential energy sources and initiate a suitable comprehensive plan for development. Since Yellowstone River Basin and Adjacent Coalfields have potential energy resources, the Missouri River Basin Commission requested and received funds to study the Yellowstone River Basin and Adjacent Coalfields.

In recent years, two studies were completed, the Missouri River Comprehensive Framework Study and the Northern Great Plains Resource Program (NGPRP) Study, which, as a part of their functions, updated prior depletion studies. The framework study included tabulations of historic flows through 1963 adjusted to a projected 1970 depletion level flow. The NGPRP study updated the historic flows to 1970, added any new depletions for the period 1963-1970 and computed a new 1970 depletion level flow. The current depletion study was performed as required by Work Item No. 12 of the Plan of Study, Yellowstone River Basin and Adjacent Coal Areas, Level B Study. This was accomplished by updating the Missouri River Basin Framework Study's 1970 depletion level flow to a 1975 depletion level flow at selected gaging stations throughout the basin. This was accomplished by:

1. Updating the monthly historical flows at those stations.
2. Updating the monthly depletions at those stations. (Negative



Digitized by the Internet Archive  
in 2013

<http://archive.org/details/yellowstoneriver1976unit>

values indicate accretions, positive values indicate depletions.)

3. Computing the 1975 depletion level by subtracting the accumulative monthly depletions to the historic flows at those stations.

A review of the Missouri River Basin Comprehensive Framework Study identified various USGS gage stations used in calculating depletion levels. The same stations were used in this study.

The initial stage of the study involved requesting all depletion data for the period 1971-1975 from State and Federal agencies within the Yellowstone River Basin.

Information received from State and Federal agencies came in many forms; therefore, some analysis was required to distribute the information to the proper gaging station. The following methods were used:

1. When depletion information was sent by county, a visual inspection of the basin map determined the contribution of depletions to its respective river basin. When a county contains more than one river basin, the depletions distributed to each basin were proportional to the area represented by each basin within that county.

2. When information was sent represents depletions for two or more river basins, the depletions were distributed according to the drainage area found in USGS Surface Water Records.

Five water uses were analyzed to compute monthly depletions. They include: irrigation, municipal, industrial, waterspreaders, and stock ponds. The following information summarizes the procedure used in evaluating the data mentioned above (by State).



## 1. IRRIGATION

The calculations used to compute the irrigation depletions were basically the same for Montana, Wyoming, and North Dakota. Since the information was received in a variety of forms, some small adjustments were made, but the procedure remained the same.

The following is an example (see page 4) of how irrigation depletions were computed. In this particular case, the data represent the sum of four individual river systems. The depletions were distributed between the river basins based on the percentage of their drainage basin area to the sum of the four drainage basin areas.

The first part of this example shows how the monthly distributions were established for depletions. Various Bureau of Reclamation Definite Plan Reports (DPR) were investigated for information concerning diversion and return flow patterns for different areas throughout the Yellowstone Basin. From these, monthly distributions could be established.

Line 1. Based on information from a DPR for the respective drainage basin, a monthly distribution in percent for diversions.

Line 2. Shows monthly diversion requirement in acre-feet per acre (AF/AC) from the DPR.

Line 3. Based on information from a DPR for the respective drainage basins, a monthly distribution in percent for return flows.

Line 4. Shows monthly return flows in AF/AC from the DPR.

Line 5. Difference between Line 4 and Line 2. Shows depletions based on DPR information. Usually, the received data do not correspond



[illegible]

1/ Taken from BuRec Definite Plan Reports.



with the calculated monthly depletions. Therefore, the generated monthly distribution of depletions are used as the basis for computation in adjustment of the States data.

Line 6. Shows monthly distribution of States data based on DPR distribution.

Line 7. Reflects depletions based on States data. Line 6 times irrigated acreage.

Line 8. Due to rounding off the summation of depletions does not equal the reported total. Therefore, this line shows a correction to Line 7 to obtain the State data. This line shows depletions by month based on DPR and States information. Since this data represents the depletions for four rivers, they are distributed according to their drainage basin size.

Line 9. Depletions for River 1, based on 43 percent of total drainage basin.

Line 10. Depletions for River 2, based on 13 percent of total drainage basin.

Line 11. Depletions for River 3, based on 6 percent of total drainage basin.

Line 12. Depletions for River 4, based on 38 percent of total drainage basin.

The following narrative indicates how each Stage reported their data and how we adjusted the procedure to fit the data:

#### Montana

Information received shows actual depletions by county. Since these



depletions were not assigned to specific gaging stations, the task was performed by investigating a State map and assigning the depletions to stations located in or near the respective county, i.e., Stillwater County, all depletions for this county should be included with the Stillwater River near Absarokee station. Lines 1 to 5 of the example were computed and the reported depletions were multiplied by the monthly distribution (Line 5).

#### Wyoming

The Wyoming data were computed in the same manner as the example.

#### North Dakota

We received Volume 2 of the West River Study which contains the 1971-1975 water permits granted by the State to irrigators by river basin. Since each river basin was identified, the depletions were computed by basin according to the example.

Ground water depletions were computed, when given, as minimal and no account was taken for them in the totals.

## 2. MUNICIPAL

#### Montana

Information received shows depletions for the larger cities within the basin boundary. Each was assigned to its proper gaging station based on location and the values were distributed monthly according to existing municipal consumptive use.



## Wyoming

Material received was the cumulative total of water use through 1975. The 1970 level was calculated from information sent and the Wyoming Water Planning Program Reports. The 1970 level of water use =  $50\% \times 1970 \text{ population} \times .2 \text{ acre-foot per capita depletion}$ . The difference between the 1970 and 1975 levels gave depletions for several major drainage areas. These depletions were distributed as follows:

1. According to the population of towns in the drainage areas above specified gaging stations.
2. Uniform distribution by year 1971-1975.
3. Distribution by month according to existing municipal consumptive use.

## North Dakota

The West River Study showed no surface water permits granted between 1970 and 1975 for municipal use.

### 3. INDUSTRIAL

## Montana

The State of Montana showed no significant increases in industrial water use between 1970 and 1975.

## Wyoming

Material received was the cumulative total of water use through 1975. The 1970 level was calculated from information sent and the Wyoming



Water Planning Program Reports. The 1970 depletion level water use =  $100\% (1980 \text{ diversions} - 1967 \text{ diversions}) \times 3/13 + 1967 \text{ Diversions}$ . The difference between the 1970 and 1975 levels gave depletions for several major drainage areas. These depletions were distributed as follows:

1. According to the populations of towns in the drainage areas above specified gaging stations.
2. Uniform distribution by year 1971-1975.
3. Distribution by month according to existing industrial consumptive use.

#### North Dakota

The West River Study showed no surface water permits granted between 1970 and 1975 for industrial use.

#### 4. WATERSPREADERS

#### All States

Monthly surface water records were investigated to determine the highest average flow during spring runoff. Depletions for waterspreaders were distributed to various months according to spring runoff peaks. Wyoming did include some information showing a distribution pattern and it was applied to their depletions.

#### 5. STOCK PONDS AND RESERVOIRS

Two separate cases were considered:

1. The stock pond is situated directly on a free flowing stream.



2. The stock pond is an offstream storage system which refills only during runoff peaks. The stock pond depletions were distributed, based on the runoff, between the months April to June. All other months will show a zero value.

In each of the above cases, the depletion was calculated by taking the surface area of the pond times an evaporation rate found in a Bureau DPR. Each river basin will have a different evaporation rate.

Reservoir depletions were assumed to occur in two ways:

1. Depletions were accounted for during the initial filling of the reservoir.
2. Every year since the filling, depletions were considered only as reservoir evaporation.

#### Additional Information

Information on evaporation rates were investigated from three sources:

1. The Climatic Atlas of the United States.
2. The MRB Comprehensive Framework Study Volume 6, Plate 10.
3. Various Definite Plan Reports.

The evaporation figures used were based on the best available information for each river basin. A standard set of evaporation rates for all stations was not used.

The purpose for reservoir operations in a depletion study is to adjust a period of historic operations to reflect present operations throughout the period. For example, the increase in irrigated acreage in the



Shoshone Unit over the years requires adjustment to historic releases from Buffalo Bill to reflect the present irrigated acreage throughout the historic record.

Four reservoirs were operated in the study area using 1975 depleted flow. Boysen, Buffalo Bill and Angostura Reservoirs were operated using 1975 operating criteria identical to 1970 operating criteria. The basic operating criteria of Boysen Reservoir are as follows:

1. Starting in October, estimate uniform release through January to end with a content of 580,000 acre-feet.
2. Release in February that quantity equal to January release.
3. Assume 100 percent runoff forecast on March 1 makes uniform releases to fill at end of July with maximum release for the month of March not greater than 135,000 acre-feet.
4. In July, do not exceed full content of 802,000 acre-feet.
5. In August and September, release inflow but not less than 72,000 acre-feet in August and 71,400 acre-feet in September.

Operating criteria used for Buffalo Bill are as follows:

1. After reservoir peaks in June and July, release irrigation requirements through September.
2. In October, release at uniform rate to reach 200,000 acre-feet of storage by the end of January, but release no less than irrigation demands or powerplant capability.
3. Assume 100 percent forecast in February to fill in June but do no spill until April and mostly in June. Hold releases so the minimum storage in April is 169,000 acre-feet.



4. Make minimum river releases at dam of 50 cfs and 200 cfs at Heart Mountain Powerplant.

5. The maximum reservoir content is 423,900 acre-feet.

Operating criteria used for Angostura Reservoir are as follows:

1. The minimum flow release to the river is 100 cfs.

2. Water is stored during nonirrigation season to maximum content of 138,800 acre-feet and releases are made during the irrigation season for downstream acreages.

The operation of Bighorn Lake Reservoir used 1975 operating criteria that differed from the 1970 criteria found in the Northern Great Plains Resource Program data. The change made was the addition of storage evacuation for flood control purposes. The operating criteria are as follows:

1. Make uniform releases January through March to bring reservoir storage down to 805,000 acre-feet and assuming 100 percent forecast on inflow.

2. Make uniform releases April through June to fill in June and assume 90 percent forecast on inflow.

3. With maximum storage at 1,116,000 acre-feet make releases in July to bring storage down to 1,068,000 acre-feet.

4. For the months August through December, release inflows plus that portion of water to draw the reservoir down to 980,000 acre-feet in December.

5. Minimum monthly power releases are made to hold a firm power output January through December of 40.3, 40.9, 44.6, 45.2, 44.6, 45.2,



41.4, 44.1, 42.0, 44.7, 45.2, 53.9, 51.6, and 44.1 million kilowatt hours, respectively.

## RESULTS

The output for each station is presented in three forms;

1. A table showing monthly historical flow taken from U.S. Geological Survey records.

2. A table showing the total monthly depletions. The figures are computed by adding the individual monthly depletions starting with a selected year through 1975. Example: the depletion shown for October of 1946 indicates the sum of October depletions from 1946 through 1975, February of 1957 shows the total February depletions from 1957 through 1975, and so forth.

3. A table showing the 1975 monthly depletion level flows (Table 1 - Table 2 = Table 3). In some instances, the depleted flow is shown as zero. This occurs when the total depletions are larger than historic flows. This would indicate a negative 1975 level flow. Since this condition is not desirable, it was assumed the stream was totally depleted and the flow would be zero.

It was suggested and approved that a better system for establishing depletion level flows be developed. In the old studies, depletion values were presented on punched cards as a level of development (1970 for example). Each new study, as before, would require a new set of punched cards to show the new level of development. Within the new system, the old depletion values were used to compute actual monthly depletions for each station. This was accomplished by writing



the computer program DEplete. The new monthly depletions were then punched on cards. The purpose is to eliminate repunching a new set of depletion cards each time a study is initiated. The only requirement now is to update the depletions by month since the last study and add those cards to the data deck. Another computer program DEPSTUD was written to compute levels of development. It uses the historic flows and the monthly depletions (established by DEplete) to compute the depletion levels of flows at selected stations. The program also outputs a listing of the historic flows, monthly depletions, summation of monthly depletions, and depleted flows.

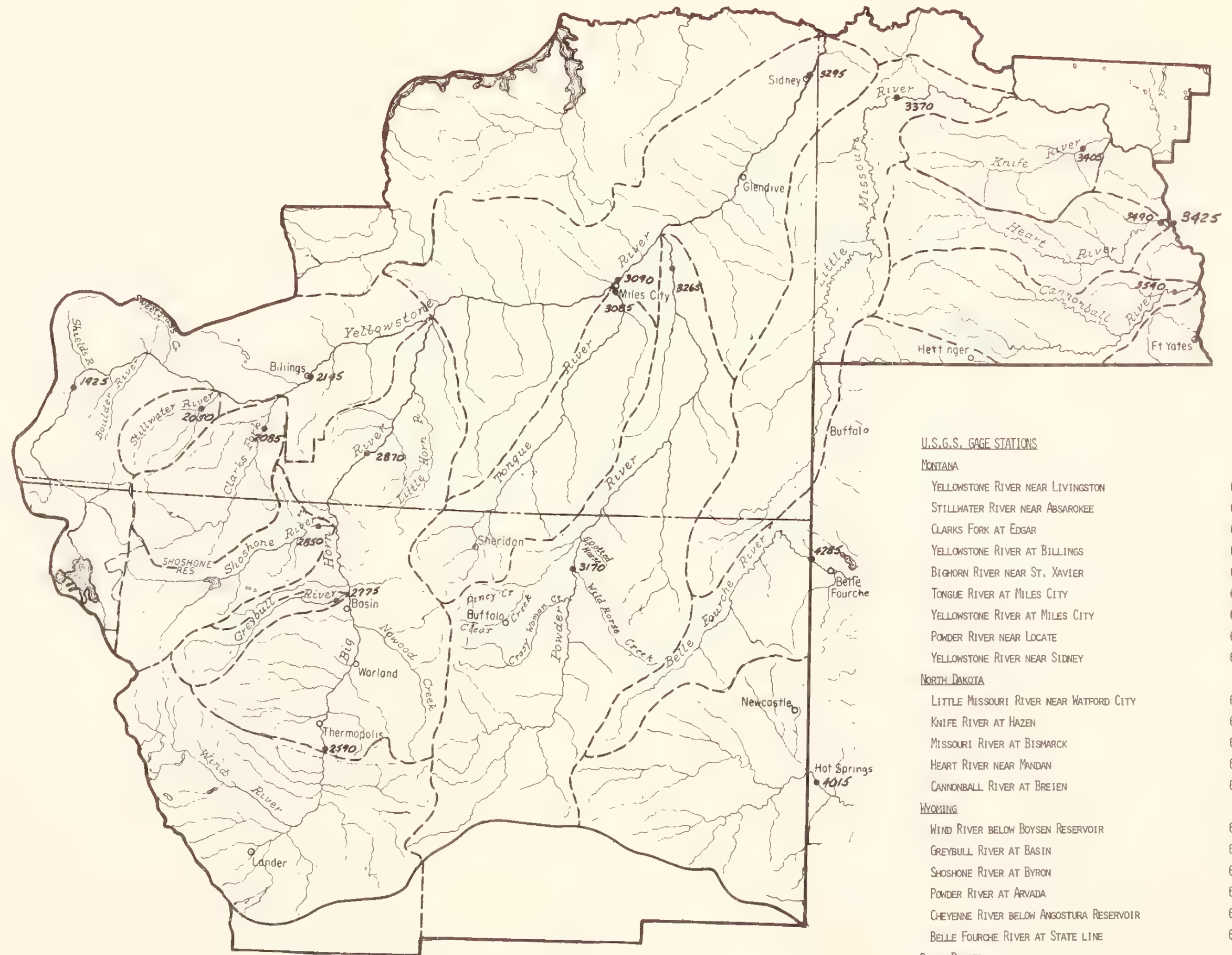


Table 1

Selected Gaging Stations for Depletion Study

<u>Name</u>	<u>Station Number</u>
Yellowstone River near Livingston	6-1925
Stillwater River near Absarokee	6-2050
Clarks Fork at Edgar	6-2085
Yellowstone River at Billings	6-2145
Wind River below Boysen Reservoir	6-2590
Greybull River at Basin	6-2775
Shoshone River at Byron	6-2850
Bighorn River near St. Xavier	6-2870
Tongue River at Miles City	6-3085
Yellowstone River at Miles City	6-3090
Powder River at Arvada	6-3170
Powder River near Locate	6-3265
Yellowstone River near Sidney	6-3295
Little Missouri River near Watford City	6-3370
Knife River at Hazen	6-3405
Missouri River at Bismarck	6-3425
Heart River near Mandan	6-3490
Cannonball River at Breien	6-3540
Cheyenne River below Angostura Dam	6-4015
Belle Fourche River at State Line	6-4285
Missouri River at Pierre	6-4400





#### U.S.G.S. GAGE STATIONS

##### MONTANA

YELLOWSTONE RIVER NEAR LIVINGSTON	6-1925
STILLWATER RIVER NEAR ABSAROOKEE	6-2050
CLARKS FORK AT EDGAR	6-2085
YELLOWSTONE RIVER AT BILLINGS	6-2145
BIGHORN RIVER NEAR ST. XAVIER	6-2870
TONGUE RIVER AT MILES CITY	6-3085
YELLOWSTONE RIVER AT MILES CITY	6-3090
POWDER RIVER NEAR LOCATE	6-3265
YELLOWSTONE RIVER NEAR SIDNEY	6-3295

##### NORTH DAKOTA

LITTLE MISSOURI RIVER NEAR WATFORD CITY	6-3370
KNIFE RIVER AT HAZEN	6-3405
MISSOURI RIVER AT BISMARCK	6-3425
HEART RIVER NEAR MANDAN	6-3490
CANNONBALL RIVER AT BREIEN	6-3540

##### WYOMING

WIND RIVER BELOW BOYSEN RESERVOIR	6-2590
GREYBULL RIVER AT BASIN	6-2775
SHOSHONE RIVER AT BYRON	6-2850
POWDER RIVER AT ARVADA	6-3170
CHEYENNE RIVER BELOW ANGOSTURA RESERVOIR	6-4015
BELLE FOURCHE RIVER AT STATE LINE	6-4285

##### SOUTH DAKOTA

MISSOURI RIVER AT PIERRE	6-4400
--------------------------	--------

*The Yellowstone River Basin  
and  
Adjacent Coal Fields  
Drainage Basin Map*



MONTANA



*Yellowstone River.*  
*near Livingston*  
*6-1925*



## YELLOWSTONE RIVER NEAR LIVINGSTON

HISTORICAL FLOWS STA 6-1925

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000 AF												
1938	101.70	83.31	73.79	58.41	49.98	76.86	110.10	354.20	856.30	479.60	231.80	142.80	2618.85
1939	128.40	101.70	82.67	81.50	67.40	87.07	150.00	544.00	503.20	328.40	169.00	110.80	2354.20
1940	101.10	74.32	65.14	55.98	54.64	70.45	93.64	459.90	582.00	259.90	126.20	96.30	2039.57
1941	94.39	76.24	70.81	67.22	60.79	67.46	73.13	332.30	434.00	246.80	162.80	166.90	1852.84
1942	170.40	129.30	108.90	86.35	75.39	80.09	157.20	319.80	702.40	484.00	196.30	121.60	2631.73
1943	98.62	86.84	77.67	69.10	61.51	82.87	199.40	430.60	1107.00	833.90	322.00	177.50	3547.01
1944	127.40	100.40	83.92	73.63	67.85	71.17	77.93	299.20	597.50	396.00	181.20	126.60	2202.80
1945	113.20	92.41	72.48	64.60	52.30	65.03	71.74	260.70	670.60	597.40	276.30	175.70	2512.46
1946	146.10	116.40	91.66	87.51	73.51	88.84	200.20	400.50	641.10	340.50	173.50	122.00	2481.82
1947	113.20	95.66	83.40	65.14	61.85	77.06	96.28	544.00	798.90	560.70	278.00	178.90	2953.09
1948	149.00	114.20	96.67	83.03	77.20	79.50	99.11	545.90	1027.00	441.20	231.50	135.60	3079.91
1949	110.00	91.68	71.90	58.71	55.80	68.62	149.00	580.40	745.20	402.30	205.00	133.80	2672.41
1950	123.90	98.20	71.60	55.00	54.18	56.62	92.61	264.70	883.20	710.40	292.80	183.10	2886.31
1951	163.60	134.80	114.40	84.34	75.77	82.69	123.10	520.00	713.60	591.80	336.90	188.40	3129.40
1952	148.30	112.20	85.86	72.12	68.39	75.91	171.00	632.80	841.30	416.70	224.10	131.50	2980.18
1953	99.89	76.98	70.61	72.65	62.56	69.46	82.73	200.90	741.20	470.90	200.50	123.70	2272.08
1954	99.83	86.68	72.02	60.14	55.44	59.86	92.23	498.50	685.70	571.80	240.20	143.90	2666.30
1955	103.00	87.35	74.30	67.89	56.63	71.03	77.61	239.50	612.70	368.70	200.30	122.00	2081.01
1956	107.00	91.93	84.58	84.87	76.13	85.35	129.90	568.80	1102.00	521.40	231.50	135.60	3219.06
1957	113.90	94.18	79.34	65.95	61.45	78.55	78.13	419.80	900.50	503.30	227.80	142.50	2765.40
1958	117.30	94.31	81.66	66.07	60.40	75.47	79.78	475.40	550.10	263.10	158.00	103.70	2125.29
1959	81.28	82.59	79.50	63.04	48.05	61.74	85.77	235.90	959.60	481.80	204.20	130.60	2514.07
1960	129.00	100.20	89.91	79.16	71.07	91.06	114.10	267.20	633.90	257.70	152.80	101.50	2087.64
1961	93.62	86.06	74.58	64.90	60.31	68.69	69.88	263.00	621.80	231.10	130.60	123.10	1887.64
1962	139.70	118.30	92.83	83.21	85.55	91.10	175.40	510.80	910.80	551.20	262.40	150.90	3172.19
1963	123.40	106.80	95.27	65.30	79.26	77.47	82.81	419.80	861.80	426.20	197.90	139.00	2675.01
1964	113.60	98.26	82.29	64.71	55.25	55.27	84.38	366.10	880.40	642.70	263.90	154.80	2861.66
1965	116.60	100.50	89.71	85.47	73.51	80.99	116.60	363.70	1165.00	797.20	333.50	206.00	3528.78
1966	174.50	128.30	100.90	81.26	66.01	80.61	106.40	421.40	533.90	292.30	157.20	116.40	2259.18
1967	103.30	86.14	76.96	74.28	71.39	81.88	84.40	373.00	1126.00	789.30	283.50	157.50	3307.65
1968	141.40	112.80	92.17	79.70	81.74	92.39	96.00	281.80	1043.00	616.90	326.30	226.50	3190.70
1969	182.80	134.70	105.70	87.37	91.44	97.75	165.40	677.20	709.00	499.20	223.00	133.30	3106.86
1970	122.90	102.80	89.06	79.76	74.84	82.65	81.40	413.00	1093.00	610.80	250.40	179.20	3179.81
1971	146.80	116.40	101.20	90.11	90.82	96.36	110.00	486.00	1217.00	816.10	323.80	197.40	3791.99
1972	162.00	128.30	98.28	87.53	81.34	103.10	117.00	427.10	1189.00	569.50	268.60	204.70	3436.45
1973	191.50	139.60	109.60	99.80	85.90	90.20	87.90	357.80	669.90	356.30	190.90	138.10	2517.50
1974	126.30	111.90	92.37	73.21	67.90	82.24	133.10	380.40	1341.00	745.00	300.00	163.70	3617.12
1975	137.10	103.60	87.15	69.26	63.49	82.75	84.22	205.90	821.80	921.60	315.10	182.00	3073.97
AVG	126.74	102.54	86.08	73.90	67.82	78.58	110.52	403.74	828.22	510.36	232.89	149.15	2770.52



## YELLOWSTONE RIVER NEAR LIVINGSTON

## SUMMATION OF MONTHLY DEPLETIONS STA 6-1925

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS -- 1000AF													
1938	-1.11	-1.26	-.95	-.13	-.23	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.72
1939	-1.11	-1.26	-.95	-.23	-.23	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.62
1940	-1.11	-1.26	-.85	-.23	-.23	-.23	-.41	2.49	3.74	9.10	5.11	2.81	18.92
1941	-1.11	-1.26	-.85	-.23	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.52
1942	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.54	9.10	5.11	2.81	18.42
1943	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.42
1944	-1.11	-1.26	-.85	-.33	-.43	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.42
1945	-1.11	-1.26	-.85	-.33	-.33	-.13	-.41	2.39	3.64	9.10	5.11	2.81	18.62
1946	-1.11	-1.26	-.85	-.33	-.33	-.13	-.41	2.39	3.64	9.10	5.11	2.81	18.62
1947	-1.11	-1.26	-.85	-.33	-.43	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.42
1948	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.54	9.10	5.11	2.81	18.42
1949	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.52
1950	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.52
1951	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.54	9.10	5.11	2.81	18.42
1952	-1.11	-1.26	-.85	-.33	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.52
1953	-1.11	-1.26	-.75	-.33	-.33	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.72
1954	-1.11	-1.26	-.75	-.33	-.23	-.23	-.41	2.39	3.64	9.10	5.11	2.81	18.72
1955	-1.11	-1.26	-.75	-.43	-.23	-.13	-.41	2.49	3.64	9.10	5.11	2.81	18.82
1956	-1.11	-1.16	-.75	-.43	-.23	-.23	-.31	2.39	3.54	9.10	5.11	2.81	18.72
1957	-.61	-.86	-.45	-.23	-.33	-.23	-.31	1.79	2.54	6.60	4.31	2.51	14.72
1958	-.61	-.86	-.55	-.33	-.33	-.23	-.31	1.79	2.54	6.60	4.31	2.51	14.52
1959	-.61	-.86	-.55	-.23	-.33	-.13	-.31	1.89	2.54	6.60	4.31	2.51	14.82
1960	-.61	-.86	-.55	-.33	-.33	-.23	-.31	1.89	2.64	6.60	4.31	2.51	14.72
1961	-.61	-.86	-.55	-.33	-.33	-.23	-.31	1.89	2.64	6.60	4.31	2.51	14.72
1962	-.61	-.86	-.45	-.33	-.43	-.23	-.31	1.89	2.64	6.60	4.31	2.51	14.72
1963	-.61	-.86	-.55	-.33	-.43	-.23	-.31	1.99	2.74	6.60	4.31	2.51	14.82
1964	-.61	-.86	-.55	-.33	-.33	-.23	-.31	1.99	2.74	6.60	4.31	2.51	14.92
1965	-.61	-.86	-.55	-.33	-.33	-.23	-.31	1.99	2.84	6.60	4.31	2.51	15.02
1966	-.11	-.46	-.35	-.23	-.33	-.23	-.21	1.39	1.84	4.10	3.61	2.21	11.22
1967	-.11	-.46	-.35	-.23	-.33	-.23	-.21	1.49	1.84	4.10	3.61	2.21	11.32
1968	-.11	-.46	-.35	-.23	-.23	-.23	-.21	1.49	1.84	4.20	3.61	2.21	11.52
1969	-.11	-.46	-.35	-.23	-.23	-.23	-.11	1.49	1.84	4.20	3.61	2.21	11.62
1970	-.11	-.46	-.35	-.23	-.23	-.13	-.11	1.59	1.94	4.20	3.61	2.21	11.92
1971	-.11	-.46	-.35	-.23	-.23	-.23	-.11	1.59	1.94	4.20	3.61	2.21	11.82
1972	-.09	-.37	-.28	-.19	-.19	-.18	-.09	1.27	1.56	3.36	2.89	1.77	9.47
1973	-.07	-.28	-.21	-.14	-.14	-.14	-.07	.96	1.17	2.53	2.17	1.33	7.12
1974	-.04	-.18	-.14	-.09	-.09	-.09	-.04	.64	.78	1.69	1.45	.89	4.77
1975	-.02	-.09	-.07	-.05	-.05	-.04	-.02	.32	.40	.85	.73	.45	2.41



## 1975 DEPLETION LEVEL STA 6-1925

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1938	102.81	84.57	74.74	58.54	50.21	77.09	110.51	351.81	852.66	470.50	226.69	139.99	2600.13
1939	129.51	102.96	83.62	81.74	67.63	87.30	150.41	541.61	499.56	319.30	163.89	107.99	2335.58
1940	102.21	75.58	65.99	56.21	54.87	70.68	94.05	457.41	578.26	250.80	121.09	93.49	2020.65
1941	95.50	77.50	71.66	67.45	61.12	67.69	73.54	329.81	430.26	237.70	157.69	164.09	1834.02
1942	171.51	130.56	109.75	86.66	75.72	80.32	157.61	317.41	698.76	474.90	191.19	118.79	2613.21
1943	99.73	88.10	78.52	69.43	61.84	83.10	199.81	428.21	1103.46	824.80	316.89	174.69	3528.59
1944	128.51	101.66	84.77	73.96	68.28	71.40	78.34	296.81	593.86	386.90	176.09	123.79	2184.38
1945	114.31	93.67	73.33	64.93	52.63	65.16	72.15	258.31	666.96	588.30	271.19	172.89	2493.84
1946	147.21	117.66	92.51	87.84	73.84	88.97	200.61	398.11	637.46	331.40	168.39	119.19	2463.20
1947	114.31	96.92	84.25	65.47	62.28	77.29	96.69	541.61	795.26	551.60	272.89	176.09	2934.67
1948	150.11	115.46	97.52	83.36	77.53	79.73	99.52	543.51	1023.46	432.10	226.39	132.79	3061.49
1949	111.11	92.94	72.75	59.04	56.13	68.85	149.41	578.01	741.56	393.20	199.89	130.99	2653.89
1950	125.01	99.46	72.45	55.33	54.51	56.85	93.02	262.31	879.56	701.30	287.69	180.29	2867.79
1951	164.71	136.06	115.25	84.67	70.10	82.92	123.51	517.61	710.06	582.70	331.79	185.59	3110.98
1952	149.41	113.46	86.71	72.45	68.72	76.14	171.41	630.41	837.66	407.60	218.99	128.69	2961.66
1953	101.00	78.24	71.36	72.98	62.89	69.69	83.14	198.51	737.56	461.80	195.39	120.89	2253.46
1954	100.94	87.94	72.77	60.47	55.67	60.09	92.64	496.11	682.06	562.70	235.09	141.09	2647.58
1955	104.11	88.61	75.05	68.32	56.86	71.16	78.02	237.01	609.06	359.60	195.19	119.19	2062.19
1956	108.11	93.09	85.33	85.30	76.36	85.58	130.21	566.41	1098.46	512.30	226.39	132.79	3200.34
1957	114.51	95.04	79.79	66.18	61.78	78.78	78.44	418.01	897.96	496.70	223.49	139.99	2750.68
1958	117.91	95.17	82.21	66.40	60.73	75.70	80.09	473.61	547.56	256.50	153.69	101.19	2110.77
1959	81.89	83.45	80.05	63.27	48.38	61.87	86.08	234.01	957.06	475.20	199.89	128.09	2499.25
1960	129.61	101.06	90.46	79.45	71.40	91.29	114.41	265.31	631.26	251.10	148.49	98.99	2072.88
1961	94.23	86.92	75.13	65.23	60.64	68.92	70.19	261.11	619.16	224.50	126.29	120.59	1872.92
1962	140.31	119.16	93.28	83.54	85.98	91.33	175.71	508.91	908.16	544.60	258.09	148.39	3157.47
1963	124.01	107.66	95.82	65.63	79.69	77.70	83.12	417.81	859.06	419.60	193.59	136.49	266



*Stillwater River  
near Absarokee  
6-2050*



# STILLWATER RIVER NEAR ABSARUKEE

HISTORICAL FLOWS STA 6-2050

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1936	17.99	13.51	11.64	8.93	5.93	9.98	17.28	77.61	113.60	38.47	30.97	22.23	368.14
1937	16.61	13.77	11.34	7.16	11.31	18.96	13.81	86.57	211.60	107.80	29.36	17.26	545.55
1938	21.85	15.29	14.79	12.46	13.32	13.89	17.98	74.59	208.40	129.80	40.05	24.87	587.29
1939	25.17	25.54	19.48	19.61	11.79	17.22	20.04	97.90	93.12	63.48	27.24	16.35	436.94
1940	17.88	14.72	11.88	13.20	12.33	11.24	18.10	102.70	205.80	73.96	26.53	25.18	533.52
1941	27.23	18.33	15.94	18.70	11.39	13.35	16.81	87.93	170.70	92.65	53.79	65.40	592.22
1942	52.37	29.99	24.98	25.38	15.30	15.96	30.70	103.20	210.30	204.00	51.77	30.84	794.79
1943	32.07	25.60	22.36	19.54	18.59	28.70	70.52	110.20	291.10	274.30	83.18	52.92	1029.13
1944	35.06	25.54	20.66	13.59	10.23	15.99	18.30	106.20	282.00	223.30	62.14	45.74	858.75
1945	32.97	25.51	20.65	18.34	15.07	18.34	23.03	61.76	213.10	228.20	75.18	43.71	775.86
1946	30.39	25.09	19.72	19.02	15.39	19.82	29.59	61.63	173.90	118.80	40.91	33.25	587.51
1947	31.61	23.71	20.38	19.62	15.18	25.30	34.41	126.90	187.00	195.30	63.57	44.86	787.84
1948	42.73	27.24	21.52	17.31	17.74	21.34	26.48	120.80	275.70	134.00	66.63	29.04	800.53
1949	25.62	21.72	18.62	15.31	10.50	16.30	27.92	114.60	173.30	99.78	39.04	33.58	596.29
1950	29.05	21.66	16.40	11.29	13.84	16.96	20.05	53.02	209.00	190.60	64.15	45.98	692.00
1951	38.05	29.66	23.19	20.83	18.37	20.09	25.91	96.83	139.20	181.90	85.83	39.16	719.02
1952	34.35	25.08	18.85	16.17	14.34	17.73	40.44	139.30	226.50	138.00	72.94	35.71	779.41
1953	24.55	22.05	19.29	17.57	15.07	15.51	19.69	47.22	181.50	139.60	56.92	29.19	588.16
1954	20.74	20.44	18.07	13.78	15.68	18.16	20.04	98.80	126.90	159.60	45.67	24.33	582.21
1955	25.84	22.36	15.87	12.89	12.02	12.79	21.75	48.42	150.40	100.10	37.70	22.30	482.40
1956	22.67	18.23	18.93	17.71	14.44	22.23	26.20	141.60	234.40	109.60	54.35	28.62	708.98
1957	23.61	21.89	22.76	13.35	12.08	14.34	19.39	140.90	343.70	229.90	59.40	41.48	942.80
1958	32.54	28.61	23.99	19.89	16.38	16.39	19.46	148.10	172.60	88.58	52.56	33.15	652.25
1959	25.05	24.03	22.52	18.55	15.03	19.52	24.19	57.87	268.10	131.40	44.98	27.06	678.30
1960	31.60	27.79	21.73	18.23	13.00	13.63	13.44	40.61	150.00	59.33	33.99	19.07	442.42
1961	21.20	19.61	17.61	15.08	14.18	12.73	8.57	56.55	150.40	49.34	28.99	45.50	439.76
1962	41.19	32.22	26.44	20.71	22.25	19.15	33.49	75.97	237.60	155.40	72.49	46.22	783.13
1963	37.27	24.65	20.82	18.32	19.78	15.05	20.26	101.00	267.30	122.20	44.94	41.45	733.04
1964	29.32	23.61	17.64	16.34	14.85	14.49	17.92	70.60	293.90	178.20	43.74	23.93	654.54
1965	20.36	23.13	22.68	20.26	18.53	16.37	25.14	59.17	246.40	207.90	79.42	48.87	788.23
1966	39.10	25.63	21.27	18.46	16.64	18.32	27.49	105.20	138.20	89.25	43.66	29.70	572.92
1967	31.45	22.53	18.96	19.60	15.18	20.96	15.80	73.54	325.60	272.80	64.10	41.34	921.86
1968	47.74	29.47	19.28	19.76	19.18	26.99	21.10	54.17	250.80	169.50	87.69	53.71	799.39
1969	39.89	25.50	21.07	19.89	18.43	18.39	25.56	97.34	172.90	160.70	51.14	25.95	676.76
1970	26.73	23.83	18.37	14.29	14.47	13.41	18.71	120.80	333.30	160.10	50.79	52.73	847.53
1971	35.77	26.09	22.67	22.90	21.54	17.84	27.84	95.10	282.50	188.00	71.37	64.00	875.62
1972	45.05	31.74	22.93	18.87	25.85	34.01	25.12	85.34	238.80	127.90	88.94	63.86	808.41
1973	43.88	29.28	22.84	17.59	16.36	18.22	39.21	113.30	207.90	131.30	47.74	54.34	742.00
1974	33.38	24.91	21.16	20.10	16.03	19.99	28.95	63.78	342.90	226.20	75.19	42.93	915.52
1975	33.29	26.37	17.57	16.05	11.77	18.37	36.34	118.30	271.70	391.60	86.37	35.39	1063.12
AVG	31.08	23.90	19.67	17.17	15.23	17.95	24.68	90.89	217.05	153.57	55.89	37.53	704.60



# STILLWATER RIVER NEAR ABSAROKEE

## SUMMATION OF MONTHLY DEPLEITIONS STA 6-2050

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1936	-.12	-.36	-.25	-.03	.09	.19	-.21	.98	1.40	2.66	.99	.68	6.01
1937	-.12	-.36	-.25	-.13	.09	.19	.49	.98	1.30	2.66	.99	.58	6.41
1938	-.22	-.36	-.25	-.13	.09	.19	-.21	.98	1.30	2.66	.99	.58	5.61
1939	-.22	-.26	-.25	-.03	.09	.19	-.11	.98	1.40	2.66	1.09	.58	6.11
1940	-.22	-.26	-.25	-.03	.09	.19	-.11	.98	1.30	2.66	1.09	.58	6.01
1941	-.22	-.26	-.15	-.03	.09	.19	-.11	.98	1.30	2.66	1.09	.58	6.11
1942	-.32	-.26	-.25	-.13	.09	.29	-.11	.98	1.30	2.66	1.09	.58	5.91
1943	-.32	-.26	-.25	-.03	.09	.09	-.11	.98	1.30	2.66	1.09	.58	5.81
1944	-.32	-.26	-.25	-.03	.09	.09	-.11	.98	1.30	2.76	1.19	.58	6.01
1945	-.32	-.26	-.25	.07	-.02	.19	-.11	.98	1.30	2.66	1.09	.58	5.91
1946	-.32	-.26	-.15	.07	-.02	.19	-.11	1.08	1.30	2.66	1.09	.48	6.01
1947	-.32	-.26	-.15	.07	-.02	.19	-.11	1.08	1.30	2.66	1.09	.48	6.01
1948	-.32	-.26	-.15	.07	.09	.19	-.11	1.08	1.30	2.66	1.19	.58	6.31
1949	-.32	-.26	-.15	.07	.09	.19	-.11	1.08	1.30	2.66	1.19	.48	6.21
1950	-.32	-.36	-.15	.07	.09	.19	-.11	1.08	1.30	2.66	1.09	.48	6.01
1951	-.32	-.36	-.15	.07	-.02	.19	-.11	1.08	1.30	2.66	1.19	.48	6.01
1952	-.32	-.36	-.15	-.03	.09	.19	-.11	1.08	1.30	2.66	1.19	.48	6.01
1953	-.42	-.26	-.15	-.03	-.02	.09	-.11	1.08	1.30	2.66	1.19	.48	5.91
1954	-.62	-.26	-.15	-.03	-.02	.09	-.11	1.08	1.30	2.66	1.19	.48	5.61
1955	-.32	-.36	-.15	-.03	-.02	.09	-.11	1.08	1.40	2.66	1.19	.48	5.91
1956	-.42	-.26	-.05	.07	-.02	.09	-.11	1.08	1.30	2.66	1.09	.48	5.91
1957	-.42	-.26	-.15	-.03	-.12	.09	-.11	1.08	1.30	2.66	1.19	.48	5.71
1958	-.42	-.26	-.15	-.03	-.12	.09	-.11	1.08	1.30	2.66	1.19	.58	5.81
1959	-.52	-.26	-.15	-.03	-.12	.09	-.11	1.08	1.30	2.66	1.19	.48	5.61
1960	-.42	-.26	-.15	.07	-.12	.09	-.01	1.08	1.30	2.66	1.19	.58	6.01
1961	-.42	-.26	-.15	-.03	-.12	.09	-.11	.98	1.30	2.66	1.19	.48	5.61
1962	-.42	-.26	-.15	-.03	-.12	.09	-.11	.98	1.30	2.66	1.19	.48	5.61
1963	-.42	-.36	-.15	-.03	-.12	.09	-.11	.98	1.30	2.66	1.29	.38	5.51
1964	-.32	-.26	-.25	-.03	-.12	-.02	-.01	.98	1.30	2.66	1.29	.48	5.71
1965	-.42	-.26	-.25	-.13	-.02	-.02	-.01	.98	1.30	2.66	1.29	.38	5.51
1966	-.02	.04	-.05	-.03	.09	.09	-.01	.38	.40	.56	.49	.18	2.11
1967	-.02	.04	-.05	-.03	-.02	-.02	-.01	.38	.40	.46	.49	.18	1.81
1968	.08	-.06	-.05	-.03	-.02	-.02	-.01	.28	.40	.46	.49	.18	1.71
1969	.08	-.06	-.05	-.03	.09	-.02	-.01	.38	.40	.46	.49	.08	1.81
1970	.08	-.06	-.05	-.03	-.02	-.02	-.09	.38	.40	.46	.39	.18	1.81
1971	.08	-.06	-.05	-.03	-.02	-.02	.09	.38	.40	.46	.39	.18	1.81
1972	.06	-.05	-.04	-.02	-.01	-.01	.07	.31	.32	.37	.31	.15	1.46
1973	.05	-.04	-.03	-.02	-.01	-.01	.06	.23	.25	.28	.24	.11	1.11
1974	.03	-.03	-.02	-.01	-.01	-.01	.04	.16	.17	.19	.16	.08	.75
1975	.02	-.01	-.01	-.01	-.00	-.00	.02	.08	.09	.10	.08	.04	.39



## STILLWATER RIVER NEAR ABSAROKEE

1975 DEPLETION LEVEL STA 6-2050

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1936	18.11	13.87	11.89	8.96	5.85	9.80	17.49	76.63	112.20	35.81	29.98	21.55	362.13
1937	16.73	14.13	11.59	7.29	11.23	18.78	13.32	85.59	210.30	105.14	28.37	16.68	539.14
1938	22.07	15.65	15.04	12.54	13.24	13.71	18.19	73.61	207.10	127.14	39.06	24.29	581.68
1939	25.39	25.80	19.73	19.64	11.71	17.04	20.15	96.92	91.72	60.82	26.15	15.77	430.83
1940	18.10	14.98	12.13	13.23	12.25	11.06	18.21	101.72	204.50	71.30	25.44	24.60	527.51
1941	27.45	18.59	16.09	18.73	11.31	13.17	16.92	86.95	169.40	89.99	52.70	64.82	586.11
1942	52.69	30.25	25.23	25.51	15.22	15.68	30.81	102.22	209.00	201.34	50.68	30.26	788.88
1943	32.39	25.86	22.61	19.62	18.51	28.62	70.63	109.22	289.80	271.64	82.09	52.34	1023.32
1944	35.38	25.80	20.91	13.62	10.15	15.91	18.41	105.22	280.70	220.54	60.95	45.16	852.74
1945	33.29	25.77	20.90	18.27	15.09	18.16	23.14	60.78	211.80	225.54	74.09	43.13	769.95
1946	30.71	25.35	19.87	18.95	15.41	19.64	29.70	60.55	172.60	116.14	39.82	32.77	581.50
1947	31.93	23.97	20.53	19.55	15.20	25.12	34.52	125.82	185.70	192.64	62.48	44.38	781.83
1948	43.05	27.50	21.67	17.24	17.66	21.16	26.59	119.72	274.40	131.34	65.44	28.46	794.22
1949	25.94	21.98	18.77	15.24	10.42	16.12	28.03	113.52	172.00	97.12	37.85	33.10	590.08
1950	29.37	22.02	16.55	11.22	13.76	16.78	20.16	51.94	207.70	187.94	63.06	45.50	685.99
1951	38.37	30.02	23.34	20.76	18.39	19.91	26.02	95.75	137.90	179.24	84.64	38.68	713.01
1952	34.67	25.44	19.00	16.20	14.26	17.55	40.55	138.22	225.20	135.34	71.75	35.23	773.40
1953	24.97	22.31	19.44	17.60	15.09	15.33	19.80	46.14	180.20	136.94	55.73	28.71	582.25
1954	21.36	20.70	18.22	13.81	15.70	18.08	20.15	97.72	125.60	156.94	44.48	23.85	576.60
1955	26.16	22.72	16.02	12.88	12.04	12.71	21.86	47.34	149.00	97.44	36.51	21.82	476.49
1956	23.09	18.49	18.98	17.64	14.46	22.15	26.31	140.52	233.10	106.94	53.26	28.14	703.07
1957	24.03	22.15	22.91	13.38	12.20	14.26	19.50	139.82	342.40	227.24	58.21	41.00	937.09
1958	32.96	28.87	24.14	19.92	16.50	16.31	19.57	147.02	171.30	85.92	51.37	32.57	646.44
1959	25.57	24.29	22.67	18.58	15.15	19.44	24.30	56.79	266.80	128.74	43.79	26.58	672.69
1960	32.02	28.05	21.88	18.16	13.12	13.55	13.45	39.53	148.70	56.67	32.80	18.49	436.41
1961	21.62	19.87	17.76	15.11	14.30	12.65	8.68	55.57	149.10	46.68	27.80	45.02	434.15
1962	41.61	32.48	26.59	20.74	22.37	19.07	33.60	74.99	236.30	152.74	71.30	45.74	777.52
1963	37.69	25.01	20.97	18.35	19.90	14.97	20.37	100.02	266.00	119.54	43.65	41.07	727.53
1964	29.64	23.87	17.89	16.37	14.97	14.51	17.93	69.62	202.60	175.54	42.45	23.45	648.83
1965	20.78	23.39	22.93	20.34	18.55	16.39	25.15	58.19	245.10	205.24	78.13	48.49	782.72
1966	39.12	25.59	21.32	18.49	16.56	18.24	27.50	104.82	137.80	88.69	43.17	29.52	570.81
1967	31.47	22.44	19.01	19.63	15.20	20.98	15.81	73.16	325.20	272.34	63.61	41.16	920.05
1968	47.66	29.53	19.33	19.79	19.20	27.01	21.11	53.89	250.40	169.04	87.20	53.53	797.68
1969	39.81	25.56	21.12	19.92	18.35	18.41	25.57	96.96	172.50	160.24	50.65	25.87	674.95
1970	26.65	23.89	18.42	14.32	14.49	13.43	18.62	120.42	332.90	159.64	50.40	52.55	845.72
1971	35.69	26.15	22.72	22.93	21.56	17.86	27.75	94.72	282.10	187.54	70.98	63.82	873.81
1972	44.99	31.79	22.97	18.89	25.86	34.02	25.05	85.04	238.48	127.53	88.63	63.71	806.95
1973	43.83	29.32	22.91	17.61	16.37	18.23	39.15	113.07	307.66	131.02	47.51	54.23	740.89
1974	33.35	24.94	21.18	20.11	16.04	20.00	28.91	63.62	342.73	226.01	75.03	42.86	914.77
1975	33.27	26.38	17.58	16.06	11.77	18.37	36.32	118.22	271.61	391.50	86.29	35.35	1062.73
AVG	31.33	24.12	19.82	17.18	15.23	17.85	24.73	90.04	215.99	151.48	54.94	37.10	699.81



Clarks Fork  
at Edgar  
6-2085



## HISTORICAL FLOW STA 6-2085

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	UNITS - 1000 AF				MAY	JUN	JUL	AUG	SEP	TOTAL
							APR									
1929	25.50	23.70	15.40	13.50	13.90	20.30	20.00	96.50	211.00	144.00	32.30	27.00	643.10			
1930	26.10	21.40	18.40	15.40	16.70	24.60	44.60	89.80	157.00	89.20	64.00	30.20	597.40			
1931	56.80	28.20	24.90	25.00	17.80	15.90	21.80	89.20	169.00	19.90	17.40	19.30	505.20			
1932	30.70	21.70	19.70	15.40	14.40	20.30	25.60	135.00	253.00	123.00	23.40	19.90	702.10			
1933	24.30	24.90	21.00	19.90	15.10	26.70	17.90	61.50	327.00	55.30	21.50	32.70	647.80			
1934	30.74	26.78	21.52	18.45	17.99	22.12	52.02	186.60	156.00	45.26	18.98	17.65	614.11			
1935	26.05	25.60	22.68	21.35	18.39	18.92	27.15	72.35	283.90	160.90	27.70	22.30	727.33			
1936	18.80	18.48	16.96	17.98	14.96	20.34	47.27	197.40	250.70	56.51	46.04	27.84	733.28			
1937	32.04	29.72	13.35	13.39	16.36	22.94	21.86	145.50	213.30	85.49	13.10	14.47	621.52			
1938	27.46	20.56	21.82	22.95	22.56	17.52	28.05	104.00	300.10	126.80	27.36	24.64	743.86			
1939	29.29	33.09	25.20	23.42	15.95	26.12	35.96	163.80	165.40	91.09	22.20	15.11	646.63			
1940	22.39	19.77	17.06	13.61	17.18	19.59	26.58	146.00	188.90	45.68	6.25	18.99	542.00			
1941	34.42	25.40	25.34	20.47	16.85	16.49	22.58	120.70	171.20	62.76	40.51	83.02	639.74			
1942	62.12	37.65	29.25	23.31	18.16	23.14	42.30	99.45	195.40	143.10	23.80	23.46	721.14			
1943	30.67	31.56	29.64	23.23	22.31	34.04	83.17	128.00	326.60	293.40	80.19	45.38	1128.19			
1944	32.35	31.92	26.26	22.12	20.03	20.02	20.02	104.20	239.30	147.10	29.66	35.04	728.02			
1945	30.37	27.15	22.68	23.23	18.70	22.58	20.99	75.11	243.90	226.10	66.10	35.61	812.52			
1946	35.37	32.68	26.33	28.17	21.28	24.62	56.85	96.00	212.40	111.00	28.51	26.80	700.01			
1947	33.11	29.44	26.03	20.08	20.10	32.68	28.79	167.40	200.70	152.40	45.46	25.27	781.46			
1948	35.31	31.57	26.90	23.94	26.90	24.60	26.22	157.80	297.30	87.98	32.04	20.31	790.87			
1949	22.37	23.86	20.32	17.08	16.51	27.62	36.52	162.30	239.10	94.48	20.28	27.58	708.02			
1950	33.56	28.98	28.74	22.95	21.10	23.01	28.20	71.31	271.20	237.50	63.66	47.06	877.27			
1951	55.08	43.31	35.84	28.96	28.52	30.60	34.17	163.90	203.50	227.00	94.76	43.08	988.72			
1952	45.57	36.61	25.36	28.01	27.61	24.92	50.34	150.50	236.90	100.20	51.28	23.80	801.10			
1953	22.92	25.30	28.15	28.40	19.42	20.35	25.46	53.08	248.30	140.40	40.55	20.59	672.92			
1954	18.70	27.20	27.11	24.63	22.88	22.10	29.24	167.60	184.00	180.10	34.91	23.19	761.66			
1955	24.12	24.51	26.03	25.66	22.63	24.83	27.62	68.03	197.70	91.18	23.45	14.05	569.81			
1956	18.32	25.97	27.89	21.42	22.00	31.56	38.73	183.40	348.60	127.60	47.47	27.63	920.59			
1957	21.69	31.49	25.22	21.10	27.00	25.14	24.76	154.70	350.50	175.70	39.85	39.08	936.23			
1958	36.70	35.51	29.90	26.24	20.79	20.91	24.26	190.70	204.20	56.21	33.40	25.25	704.07			
1959	20.44	29.19	29.75	23.72	21.23	24.28	30.46	56.31	350.80	151.30	38.14	25.02	800.64			
1960	41.40	34.95	27.25	19.34	18.84	28.22	30.37	62.20	220.70	42.17	24.52	11.45	561.41			
1961	20.70	26.25	23.31	22.37	18.91	18.31	7.34	87.34	242.80	41.11	13.56	56.64	578.64			
1962	49.90	34.33	25.66	19.49	22.20	21.90	53.09	108.80	291.50	131.70	55.93	36.95	851.45			
1963	33.28	29.34	29.16	20.67	32.41	22.45	25.74	141.20	289.60	102.60	19.83	37.82	784.10			
1964	25.17	28.16	23.57	18.60	17.95	19.31	29.93	118.40	263.50	191.20	29.37	18.53	783.69			
1965	22.28	30.69	28.13	27.31	23.40	19.57	35.39	94.77	342.40	211.50	76.35	49.56	961.35			
1966	45.80	33.72	30.01	23.96	18.76	22.99	24.97	114.20	170.50	69.54	24.54	25.90	604.89			
1967	28.91	28.55	26.05	26.02	21.11	21.48	21.23	112.30	379.60	243.90	50.81	29.47	989.43			
1968	42.84	35.79	27.81	25.75	23.79	25.65	22.08	46.55	282.60	132.30	82.69	47.55	795.40			
1969	38.03	30.66	25.06	24.08	21.72	21.88	40.52	140.10	196.40	103.00	21.50	17.69	680.64			
1970	30.45	29.60	26.90	23.66	22.18	21.42	20.89	139.00	309.20	127.70	26.96	40.09	818.05			
1971	38.29	30.28	27.24	23.57	24.84	24.68	29.66	128.10	362.50	190.30	64.30	57.78	1001.54			
1972	51.27	37.11	30.25	28.76	28.37	36.63	28.35	113.70	381.20	145.90	77.02	56.73	1015.29			
1973	58.42	39.81	28.70	27.71	25.45	24.27	33.61	102.60	189.60	95.05	30.05	52.77	708.04			
1974	36.41	36.17	24.64	30.11	21.91	24.71	38.96	99.24	396.10	190.80	62.52	36.92	998.49			
1975	29.98	33.23	27.01	17.92	19.42	31.66	30.52	100.50	255.50	344.60	69.51	31.63	991.48			
AVG	33.12	29.61	25.22	22.39	20.78	23.70	31.75	118.45	254.69	132.17	40.08	31.68	763.64			



## CLARKS FORK AT EDGAR

## SUMMATION OF MONTHLY DEPLETIONS STA 6-2085

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	.16	-.49	-.82	-.05	-.07	-.07	.24	2.26	2.64	4.99	2.42	1.17	12.39
1930	.16	-.49	-.82	-.05	-.07	-.07	.24	2.36	2.74	4.99	2.42	1.17	12.59
1931	.16	-.49	-.82	-.05	-.07	-.07	.24	2.36	2.74	4.99	2.42	1.17	12.59
1932	.16	-.49	-.82	-.05	-.07	-.07	.24	2.26	2.64	4.99	2.42	1.17	12.39
1933	.16	-.49	-.82	-.05	-.07	-.07	.24	2.26	2.64	4.99	2.42	1.17	12.39
1934	.16	-.49	-.82	-.05	-.07	-.07	.24	2.36	2.74	4.99	2.42	1.17	12.59
1935	.06	-.49	-.82	-.05	-.07	-.07	.24	2.06	2.64	4.99	2.42	1.07	11.99
1936	.16	-.49	-.82	-.05	-.07	-.07	.14	2.06	2.64	4.99	2.42	1.07	11.99
1937	.16	-.49	-.82	-.05	-.07	-.07	.14	2.06	2.64	4.99	2.42	.97	11.89
1938	.06	-.59	-.72	-.05	-.07	-.07	.14	2.06	2.64	4.99	2.42	1.07	11.89
1939	.06	-.59	-.72	-.05	-.07	-.07	.14	2.06	2.64	4.99	2.42	1.07	11.89
1940	.06	-.59	-.72	-.05	-.07	-.07	.14	2.26	2.74	4.99	2.42	1.07	12.19
1941	.06	-.59	-.62	-.05	-.07	-.07	.14	2.06	2.64	4.99	2.42	1.07	11.99
1942	.06	-.49	-.72	-.05	-.07	-.07	.14	1.96	2.64	4.99	2.42	.97	11.79
1943	-.04	-.59	-.62	-.05	-.07	-.07	.04	2.06	2.54	4.89	2.42	.97	11.49
1944	-.04	-.49	-.72	-.05	-.07	-.07	.24	2.06	2.64	4.99	2.42	1.07	11.99
1945	-.04	-.59	-.72	-.05	-.07	-.07	.14	2.06	2.54	4.89	2.42	1.07	11.59
1946	-.04	-.59	-.62	-.15	-.07	-.07	.24	2.06	2.54	4.99	2.42	1.07	11.79
1947	-.04	-.49	-.62	-.15	-.07	-.07	.24	2.06	2.54	4.99	2.42	1.07	11.89
1948	-.04	-.59	-.62	-.05	-.07	-.07	.24	2.06	2.54	4.99	2.52	1.07	11.99
1949	-.04	-.59	-.62	-.15	-.07	-.07	.24	2.06	2.54	4.99	2.42	1.07	11.79
1950	-.04	-.59	-.62	-.15	-.07	-.07	.14	2.06	2.44	4.99	2.42	1.07	11.59
1951	-.04	-.59	-.62	-.15	-.07	-.07	.14	2.06	2.44	4.99	2.42	1.07	11.59
1952	-.04	-.59	-.72	-.15	-.07	-.07	.34	2.06	2.64	4.99	2.42	1.07	11.89
1953	-.04	-.59	-.72	-.15	-.07	-.07	.24	2.06	2.64	4.99	2.52	1.07	11.89
1954	-.04	-.59	-.62	-.15	-.07	-.17	.34	2.06	2.64	4.99	2.62	1.07	12.09
1955	-.04	-.59	-.62	-.25	-.07	-.17	.34	2.26	2.74	4.99	2.62	1.07	12.29
1956	-.04	-.59	-.62	-.25	-.07	-.27	.24	2.16	2.64	4.99	2.52	1.17	11.99
1957	-.04	-.59	-.62	-.15	-.07	-.17	.14	2.16	2.74	4.99	2.52	1.07	11.99
1958	-.04	-.59	-.62	-.15	-.07	-.17	.24	2.16	2.74	5.09	2.62	1.07	12.29
1959	-.04	-.59	-.62	-.15	-.07	-.17	.24	2.16	2.64	4.99	2.62	1.17	12.19
1960	-.04	-.59	-.52	-.15	-.07	-.17	.34	2.06	2.54	5.09	2.62	1.07	12.19
1961	-.04	-.59	-.52	-.25	-.07	-.17	.34	2.16	2.54	5.09	2.52	1.17	12.19
1962	-.04	-.49	-.52	-.25	-.07	-.17	.34	2.06	2.44	5.09	2.62	1.07	12.09
1963	-.04	-.49	-.52	-.25	-.07	-.17	.34	2.16	2.64	4.99	2.62	1.17	12.39
1964	-.04	-.59	-.52	-.25	-.07	-.07	.34	2.16	2.64	4.99	2.52	1.27	12.39
1965	-.04	-.59	-.42	-.25	-.17	-.07	.34	2.16	2.64	4.99	2.72	1.17	12.49
1966	.46	-.19	-.12	-.15	-.07	-.07	.34	1.26	1.44	2.19	1.82	.87	7.79
1967	.46	-.29	-.12	-.05	-.07	-.07	.44	1.26	1.44	2.19	1.82	.87	7.89
1968	.46	-.29	-.12	-.15	-.07	.03	.44	1.16	1.44	2.19	1.82	.87	7.79
1969	.46	-.29	-.22	-.15	-.07	-.07	.44	1.36	1.34	2.19	1.82	.87	7.69
1970	.46	-.29	-.22	-.15	-.07	-.07	.44	1.36	1.44	2.19	1.82	.87	7.79
1971	.36	-.29	-.22	-.15	-.07	-.07	.44	1.36	1.44	2.19	1.82	.87	7.69
1972	.29	-.23	-.18	-.12	-.06	-.06	.35	1.09	1.16	1.76	1.46	.70	6.16
1973	.22	-.18	-.13	-.09	-.05	-.05	.26	.82	.87	1.32	1.10	.53	4.63
1974	.15	-.12	-.09	-.06	-.03	-.03	.18	.55	.58	.88	.73	.35	3.10
1975	.07	-.06	-.04	-.03	-.02	-.02	.09	.28	.30	.45	.37	.18	1.56



1975 DEPLETION LEVEL STA 6-2085

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000AF												
1929	25.34	24.19	16.22	13.55	13.97	20.37	19.76	94.24	208.36	139.01	29.88	25.83	630.71
1930	25.94	21.89	19.22	15.45	16.77	24.67	44.36	87.44	154.26	84.21	61.58	29.03	584.81
1931	56.64	28.69	25.72	25.05	17.87	15.97	21.56	86.84	166.26	14.91	14.98	18.13	492.61
1932	30.54	22.15	20.52	15.45	14.47	20.37	25.36	132.74	250.36	118.01	20.98	18.73	689.71
1933	24.14	25.39	21.82	19.95	15.17	26.77	17.66	59.24	324.36	50.31	19.08	31.53	635.41
1934	30.58	27.27	22.34	18.50	18.06	22.19	51.78	184.24	153.26	40.27	16.56	16.48	601.52
1935	25.99	26.09	23.50	21.44	18.46	18.99	26.91	70.29	281.26	155.91	25.28	21.23	715.34
1936	18.64	18.97	17.78	18.03	15.03	20.41	47.13	195.34	248.06	51.52	43.62	26.77	721.29
1937	31.88	30.21	14.17	13.44	16.43	23.01	21.72	143.44	210.66	80.50	10.68	13.50	609.63
1938	27.40	21.15	22.54	23.04	22.63	17.59	27.91	101.94	297.46	121.81	24.94	23.57	731.97
1939	29.23	33.68	25.92	23.47	16.02	26.19	35.82	161.74	162.76	86.10	19.78	14.04	634.74
1940	22.33	20.36	17.78	13.66	17.25	19.66	26.44	143.74	186.16	40.69	3.83	17.92	529.81
1941	34.36	25.99	25.96	20.52	16.92	16.56	22.44	118.64	168.56	57.77	38.09	81.95	627.75
1942	62.06	38.14	29.97	23.36	18.23	23.21	42.16	97.49	192.76	138.11	21.38	22.49	709.35
1943	30.71	32.15	30.26	23.28	22.38	34.11	83.13	125.94	324.06	288.51	77.77	44.41	1116.70
1944	32.39	32.41	26.98	22.17	20.10	20.09	19.78	102.14	236.66	142.11	27.24	33.97	716.03
1945	30.41	27.74	23.40	23.28	18.77	22.65	20.85	73.05	241.36	221.21	63.68	34.54	800.93
1946	35.41	33.27	26.95	28.32	21.35	24.69	56.61	93.94	209.86	106.01	26.09	25.73	688.22
1947	33.15	29.93	26.65	20.23	20.17	32.75	28.55	165.34	198.16	147.41	43.04	24.20	769.57
1948	35.35	32.16	27.52	23.94	26.97	24.67	25.98	155.74	294.76	82.99	29.52	19.24	778.88
1949	22.41	24.45	20.94	17.23	16.58	27.69	36.28	160.24	236.56	89.49	17.86	26.51	696.23
1950	33.60	29.57	29.36	23.10	21.17	23.08	28.06	69.25	268.76	232.51	61.24	45.99	865.68
1951	55.12	43.90	36.46	29.11	28.59	30.67	34.03	161.84	201.06	222.01	92.34	42.01	977.13
1952	45.61	37.20	26.08	28.16	27.68	24.99	50.00	148.44	234.26	95.21	48.86	22.73	789.21
1953	22.96	25.89	28.87	28.55	19.49	20.42	55.22	51.02	245.66	135.41	38.03	19.52	661.03
1954	18.74	27.79	27.73	24.78	22.95	22.27	28.90	165.54	181.36	175.11	32.29	22.12	749.57
1955	24.16	25.10	26.65	25.91	22.70	25.00	27.28	65.77	194.96	86.19	20.83	12.98	557.52
1956	18.36	26.56	28.51	21.57	22.07	31.83	38.49	181.24	345.96	122.61	44.95	26.46	908.60
1957	21.73	32.08	25.84	21.25	27.07	25.31	24.62	152.54	347.76	170.71	37.33	38.01	924.24
1958	36.74	36.10	30.52	26.39	20.86	21.08	24.02	188.54	201.46	51.12	30.78	24.18	691.78
1959	20.48	29.78	30.37	23.87	21.30	24.45	30.22	54.15	348.16	146.31	35.52	23.85	788.45
1960	41.44	35.54	27.77	19.49	18.91	28.39	30.03	60.14	218.16	37.08	21.90	10.38	549.22
1961	20.74	26.84	23.83	22.62	18.98	18.48	7.00	85.18	240.26	36.02	11.04	55.47	566.45
1962	49.94	34.82	26.18	19.74	22.27	22.07	52.75	106.74	289.06	126.61	53.31	35.88	839.36
1963	33.32	29.83	29.68	20.92	32.48	22.62	25.40	139.04	286.96	97.61	17.21	36.65	771.71
1964	25.21	28.75	24.09	18.85	18.02	19.38	29.59	116.24	260.86	186.21	26.85	17.26	771.30
1965	22.32	31.28	28.55	27.56	23.57	19.64	35.05	92.61	339.76	206.51	73.63	48.39	948.86
1966	45.34	33.91	30.13	24.11	18.83	23.06	24.63	112.94	169.06	67.35	22.72	25.03	597.10
1967	28.45	28.84	26.17	26.07	21.18	21.55	20.79	111.04	378.16	241.71	48.99	28.60	981.54
1968	42.38	36.08	27.93	25.90	23.86	25.62	21.64	45.39	281.16	130.11	80.87	46.68	787.61
1969	37.57	30.95	25.28	24.23	21.79	21.95	40.08	138.74	195.06	100.81	19.68	16.82	672.95
1970	29.99	29.89	27.12	23.81	22.25	21.49	20.45	137.64	307.76	125.51	25.14	39.22	810.26
1971	37.93	30.57	27.46	23.72	24.91	24.75	29.22	126.74	361.06	188.11	62.48	56.91	993.85
1972	50.98	37.34	30.43	28.88	28.43	36.69	28.00	112.61	380.04	144.15	75.56	56.03	1009.13
1973	58.20	39.99	28.83	27.80	25.50	24.32	33.35	101.78	188.73	93.73	28.95	52.25	703.41
1974	36.26	36.29	24.73	30.17	21.94	24.74	38.78	98.69	395.52	189.92	61.79	36.57	995.39
1975	29.91	33.29	27.05	17.95	19.44	31.68	30.43	100.22	255.20	344.15	69.14	31.46	989.92
AVG	33.03	30.10	25.78	22.50	20.85	23.79	31.50	116.55	252.38	127.86	37.81	30.66	752.82



*Yellowstone River*  
*at Billings*  
*6-2145*



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	296.00	248.00	207.00	180.00	153.00	263.00	247.00	594.00	1320.00	842.00	288.00	224.00	4862.00
1930	208.00	167.00	123.00	135.00	194.00	184.00	316.00	539.00	916.00	504.00	413.00	245.00	3944.00
1931	292.00	176.00	141.00	148.00	141.00	152.00	172.00	448.00	958.00	232.00	173.00	150.00	3183.00
1932	187.00	136.00	136.00	115.00	89.70	213.00	159.00	719.00	1500.00	812.00	251.00	195.00	4512.70
1933	196.00	176.00	97.20	93.50	91.60	160.00	173.00	478.00	1560.00	465.00	234.00	239.00	3963.30
1934	181.00	187.20	153.70	184.50	130.30	153.00	280.00	633.00	586.10	209.70	104.80	111.80	2915.10
1935	154.70	139.50	126.70	129.80	136.00	125.60	154.40	431.80	1327.00	765.80	233.90	155.70	3880.90
1936	152.60	179.30	140.60	141.90	120.90	151.90	291.90	944.80	1097.00	358.50	240.80	163.10	3983.30
1937	174.60	163.40	121.40	113.90	104.40	181.80	156.40	637.80	1205.00	518.30	163.90	130.30	3671.20
1938	195.50	159.30	117.50	178.40	106.50	160.00	172.20	659.80	1764.00	930.50	301.40	200.40	4945.50
1939	218.50	214.90	160.20	133.20	101.80	212.30	258.10	869.60	971.10	489.00	195.40	138.70	3962.80
1940	167.10	146.10	129.00	83.80	103.90	135.50	172.70	727.90	1136.00	356.80	114.90	128.60	3402.30
1941	203.60	156.30	131.10	115.20	111.30	128.80	161.90	575.10	929.50	390.20	237.50	405.70	3546.20
1942	418.30	279.90	217.20	179.10	149.20	241.90	351.70	811.50	1480.00	911.20	280.60	216.70	5537.30
1943	228.50	223.40	202.80	159.10	222.00	329.40	523.60	806.80	2214.00	1653.00	507.60	325.60	7395.80
1944	245.70	223.60	188.10	161.30	138.80	177.40	148.40	533.80	1725.00	1049.00	279.40	259.80	5130.30
1945	229.30	203.70	139.80	157.90	125.60	165.00	160.10	477.00	1503.00	1251.00	417.70	270.20	5100.30
1946	259.20	235.60	165.50	197.40	186.40	196.20	331.70	653.40	1254.00	644.40	223.80	225.30	4572.90
1947	267.90	210.00	176.90	160.10	126.30	193.70	275.20	1060.00	1508.00	1028.00	402.30	284.10	5692.50
1948	296.20	235.90	201.80	162.50	155.00	198.50	235.10	1053.00	2160.00	782.50	336.10	189.80	6006.40
1949	205.00	185.20	131.40	118.40	131.60	181.10	291.20	962.20	1347.00	590.90	221.50	219.30	4584.80
1950	240.90	201.70	121.00	87.10	115.50	193.00	208.50	547.10	1657.00	1339.00	481.10	304.20	5496.10
1951	328.20	288.40	246.40	172.10	197.20	230.70	272.20	914.20	1248.00	1122.00	594.70	318.10	5932.20
1952	313.40	263.70	181.20	162.00	156.80	186.10	409.50	1251.00	1629.00	756.90	374.40	221.40	5905.40
1953	188.50	174.80	163.40	170.70	139.50	148.80	166.90	346.50	1482.00	858.10	324.00	189.80	4353.00
1954	169.70	185.90	170.10	120.70	149.00	138.50	199.40	863.40	1097.00	969.30	320.20	192.20	4575.40
1955	186.60	183.90	156.70	133.30	113.40	142.20	236.90	470.10	1209.00	633.20	248.40	160.40	3874.10
1956	184.20	166.10	169.60	159.60	144.30	249.40	310.30	1227.00	1928.00	760.00	341.70	221.00	5861.20
1957	187.90	207.50	174.50	99.70	141.90	185.90	187.50	978.40	2258.00	1097.00	327.50	284.60	6130.40
1958	261.10	232.30	191.10	151.60	133.70	158.00	181.10	971.60	1154.00	481.10	235.40	175.90	4326.90
1959	166.90	194.70	174.30	139.80	123.80	177.80	216.10	516.90	1965.00	909.70	281.50	204.80	5071.30
1960	267.80	228.50	191.40	117.50	138.20	177.40	210.10	415.40	1186.00	364.30	209.60	140.40	3646.60
1961	163.30	179.00	149.10	134.80	132.20	124.00	85.60	437.20	1129.00	305.60	137.20	285.00	3262.00
1962	307.40	270.20	193.40	144.60	220.60	213.70	359.40	819.80	1743.00	931.40	420.80	302.90	5927.20
1963	246.60	213.60	184.60	132.10	227.60	162.40	183.30	792.40	1805.00	701.30	246.90	247.20	5143.00
1964	199.40	198.30	151.70	144.80	151.30	148.30	202.40	716.50	1729.00	1166.00	357.20	229.20	5394.10
1965	188.60	202.40	184.40	208.90	184.40	172.60	306.20	648.10	2098.00	1481.00	579.50	409.90	6714.00
1966	356.40	254.10	199.10	180.60	170.80	202.40	236.90	820.80	976.90	480.90	221.10	201.80	4301.80
1967	213.60	215.00	191.20	189.50	163.50	195.60	186.20	689.10	2453.00	1614.00	411.60	248.30	6770.60
1968	300.90	248.80	195.10	164.20	221.70	226.40	220.60	491.20	2040.00	1147.00	578.10	434.40	6258.40
1969	341.40	273.90	200.20	178.20	179.40	224.90	363.00	979.80	1333.00	956.40	293.70	203.90	5527.80
1970	252.80	224.20	184.50	155.80	159.20	166.70	183.60	1021.00	2182.00	1035.00	340.10	349.00	6257.90
1971	302.90	237.90	189.70	189.20	226.40	195.30	284.30	905.50	2224.00	1312.00	468.70	397.40	6933.30
1972	349.60	269.50	200.90	162.20	198.40	300.80	235.30	723.70	1964.00	884.00	486.30	398.30	6173.00
1973	391.30	284.90	200.80	192.20	171.10	201.30	291.10	862.30	1260.70	652.00	255.40	326.90	5090.00
1974	265.50	243.50	199.50	190.90	147.20	178.40	276.00	619.60	2441.00	1328.00	495.90	301.80	6687.30
1975	257.70	245.60	181.90	150.30	123.50	213.80	307.20	913.60	1957.00	2286.00	556.10	296.90	7489.60
AVG	242.75	211.38	169.31	150.65	150.00	187.63	241.51	736.12	1544.88	858.62	323.57	245.19	5061.60



## YELLOWSTONE RIVER AT BILLINGS

SUMMATION OF MONTHLY DEPLETIONS STA 6-2145

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.37	18.04	37.35	18.26	9.20	83.45
1930	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.57	18.24	37.35	18.26	9.20	83.85
1931	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.57	18.24	37.35	18.26	9.20	83.85
1932	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.47	18.14	37.35	18.26	9.20	83.65
1933	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.47	18.14	37.35	18.26	9.20	83.65
1934	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.57	18.24	37.35	18.26	9.20	83.85
1935	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.37	18.14	37.35	18.26	9.20	83.55
1936	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.37	18.14	37.35	18.26	9.20	83.55
1937	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.37	18.04	37.35	18.26	9.20	83.45
1938	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.59	13.37	18.04	37.35	18.26	9.20	83.45
1939	-3.79	-4.64	-2.98	-1.52	-.93	-.51	2.19	14.27	19.04	37.95	18.26	9.20	86.55
1940	-3.79	-4.64	-2.98	-1.52	-.93	-.51	2.09	14.37	18.94	37.95	18.26	9.20	86.45
1941	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.89	14.07	18.74	37.75	18.26	9.20	85.55
1942	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.09	12.67	17.34	36.95	18.26	9.20	81.15
1943	-3.79	-4.64	-2.98	-1.52	-.93	-.51	.99	12.67	17.14	36.85	18.26	9.20	80.75
1944	-3.79	-4.64	-2.98	-1.52	-.93	-.51	1.09	12.67	17.34	36.95	18.26	9.20	81.15
1945	-3.79	-4.44	-2.98	-1.52	-.93	-.51	1.39	13.07	17.74	37.15	18.26	9.20	82.65
1946	-3.79	-4.54	-3.08	-1.32	-.93	-.51	1.29	13.07	17.74	37.15	18.36	9.20	82.65
1947	-3.79	-4.64	-3.08	-1.42	-.93	-.51	1.29	12.97	17.64	37.05	18.26	9.20	82.05
1948	-3.79	-4.54	-3.08	-1.52	-.93	-.51	1.09	12.87	17.34	37.05	18.16	9.20	81.35
1949	-3.79	-4.54	-3.08	-1.42	-.93	-.51	1.09	12.77	17.34	36.95	18.26	9.20	81.35
1950	-3.79	-4.54	-3.18	-1.42	-.93	-.51	1.19	12.67	17.44	36.85	18.26	9.20	81.25
1951	-3.79	-4.54	-3.18	-1.42	-.93	-.51	1.09	12.47	17.14	36.85	18.36	9.20	80.75
1952	-3.79	-4.54	-2.98	-1.42	-.93	-.61	.79	12.17	16.94	36.65	18.47	9.20	79.95
1953	-3.79	-4.54	-2.98	-1.52	-.93	-.61	.99	12.37	17.14	36.75	18.47	9.20	80.55
1954	-3.79	-4.54	-3.08	-1.42	-.93	-.61	.69	12.27	16.94	36.55	18.27	9.30	79.65
1955	-2.99	-3.94	-2.68	-1.12	-.83	-.51	.49	11.27	15.34	32.55	16.97	8.70	73.25
1956	-2.99	-3.94	-2.68	-1.22	-.83	-.41	.59	10.97	15.04	32.55	17.17	8.60	72.85
1957	-2.49	-3.54	-2.48	-1.12	-.83	-.51	.79	9.97	13.54	29.75	16.37	8.50	67.55
1958	-2.49	-3.54	-2.38	-1.12	-.83	-.51	.79	10.17	13.74	30.05	16.27	8.40	68.55
1959	-2.49	-3.54	-2.38	-1.22	-.83	-.51	.69	10.27	13.74	29.95	16.17	8.40	68.25
1960	-1.69	-2.84	-2.08	-1.02	-.73	-.51	.79	9.37	12.34	26.05	14.97	7.90	62.55
1961	-1.69	-2.84	-2.08	-.92	-.73	-.51	.49	9.37	12.34	25.75	15.07	7.90	62.15
1962	-1.69	-3.04	-2.08	-.92	-.73	-.41	.49	9.37	12.34	25.85	14.87	8.10	62.15
1963	-1.69	-3.05	-1.98	-.92	-.73	-.41	.49	9.37	12.34	25.75	15.07	7.90	62.05
1964	-.49	-2.05	-1.48	-.82	-.83	-.61	.39	7.27	9.34	18.65	12.67	7.00	49.05
1965	-.59	-2.15	-1.58	-.72	-.73	-.61	.39	7.17	9.24	18.75	12.67	7.00	48.85
1966	.31	-1.45	-1.18	-.62	-.63	-.51	.49	5.77	7.34	13.85	11.17	6.50	41.05
1967	.31	-1.35	-1.28	-.72	-.63	-.61	.29	6.17	7.24	13.85	11.17	6.50	40.95
1968	.31	-1.35	-1.28	-.62	-.63	-.71	.39	6.17	7.14	13.85	11.07	6.50	40.85
1969	.11	-1.35	-1.18	-.62	-.63	-.61	.29	5.97	7.24	13.75	10.97	6.40	40.35
1970	.11	-1.45	-1.18	-.62	-.63	-.61	.19	6.07	7.04	13.55	10.97	6.40	39.85
1971	.21	-1.45	-1.08	-.72	-.63	-.61	.29	6.07	7.04	13.65	10.97	6.40	40.15
1972	.17	-1.16	-.86	-.57	-.50	-.49	.23	4.87	5.64	11.09	8.78	5.13	32.33
1973	.13	-.87	-.65	-.43	-.38	-.37	.18	3.66	4.25	8.53	6.60	3.85	24.49
1974	.09	-.58	-.43	-.29	-.25	-.24	.12	2.45	2.85	5.97	4.41	2.57	16.65
1975	.05	-.25	-.22	-.14	-.13	-.12	.07	1.23	1.44	3.41	2.22	1.29	8.81



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	299.79	252.65	209.98	181.52	153.93	263.51	245.41	580.63	1301.96	804.65	269.74	214.80	4778.55
1930	211.79	171.65	125.98	136.52	194.93	184.51	314.41	525.43	897.76	466.65	394.74	235.80	3860.15
1931	295.79	180.65	143.98	149.52	141.93	152.51	170.41	434.43	939.76	194.65	154.74	140.80	3099.15
1932	190.79	140.65	138.98	116.52	90.63	213.51	157.41	705.53	1481.86	774.65	232.74	185.80	4429.05
1933	199.79	180.65	100.18	95.02	92.53	160.51	171.41	464.53	1541.86	427.65	215.74	229.80	3879.65
1934	184.79	191.85	156.68	146.02	131.23	153.51	178.41	619.43	567.86	172.35	86.54	102.60	2831.25
1935	158.49	144.15	129.68	131.32	136.93	126.11	152.81	418.43	1308.86	728.45	215.64	146.50	3797.35
1936	156.39	183.95	143.58	143.42	121.83	152.41	290.31	931.43	1078.86	321.15	222.54	193.90	3899.75
1937	178.39	168.05	124.38	115.42	105.33	182.31	154.81	624.43	1186.96	480.95	145.64	121.10	3587.75
1938	199.29	163.95	120.48	179.92	107.43	160.51	170.61	646.43	1745.96	893.15	283.14	191.20	4862.05
1939	222.29	219.55	163.18	134.72	102.73	212.81	255.91	855.33	952.06	451.05	177.14	129.50	3876.25
1940	170.89	150.75	131.98	85.32	104.83	136.01	170.61	713.53	1117.06	318.85	96.64	119.40	3315.85
1941	207.39	160.95	134.08	116.72	112.23	129.31	160.01	561.03	910.76	352.45	219.24	396.50	3460.65
1942	422.09	284.55	220.18	180.62	150.13	242.41	350.61	798.83	1462.66	874.25	262.34	207.50	5456.15
1943	232.29	228.05	205.78	160.62	222.93	329.91	522.61	794.13	2196.86	1616.15	489.34	316.40	7315.05
1944	249.49	228.25	191.08	162.82	139.73	177.91	147.31	521.13	1707.66	1012.05	261.14	250.60	5049.15
1945	233.09	208.15	142.78	159.42	126.53	165.51	158.71	463.93	1485.26	1213.85	399.44	261.00	5017.65
1946	262.99	240.15	168.58	198.72	127.33	196.71	330.41	640.33	1236.26	607.25	205.44	216.10	4490.25
1947	271.69	214.65	179.98	161.52	127.23	194.21	273.91	1047.03	1490.36	990.95	384.04	274.90	5610.45
1948	299.99	240.45	204.88	164.02	155.93	199.01	234.01	1040.13	12142.66	745.45	317.94	180.60	5925.05
1949	208.79	189.75	134.48	119.82	132.53	181.61	290.11	949.43	1329.66	553.95	203.24	210.10	4503.45
1950	244.69	206.25	124.18	88.52	116.43	193.51	207.31	534.43	1639.56	1302.15	462.84	295.00	5414.85
1951	331.99	292.95	249.58	173.52	198.13	231.21	271.11	901.73	1230.86	1085.15	576.34	308.90	5851.45
1952	317.19	268.25	184.18	163.42	157.73	186.71	408.71	1238.83	1612.06	720.25	355.94	212.20	5825.45
1953	192.29	179.35	166.38	172.22	140.43	149.41	165.91	334.13	1464.86	821.35	305.54	180.60	4272.45
1954	173.49	190.45	173.18	122.12	149.93	139.11	198.71	851.13	1080.06	932.75	301.94	182.90	4495.75
1955	189.59	187.85	159.38	134.42	114.23	142.71	236.41	458.83	1193.66	600.65	231.44	151.70	3800.85
1956	187.19	170.05	172.28	160.82	145.13	249.81	309.71	1216.03	1912.96	727.45	324.54	212.40	5788.35
1957	190.39	211.05	176.98	100.82	142.73	186.41	187.11	968.43	2244.46	1067.25	311.14	276.10	6062.85
1958	263.59	235.85	193.48	152.72	134.53	158.51	180.31	961.43	1140.26	451.05	219.14	167.50	4258.35
1959	169.39	198.25	176.68	141.02	124.63	178.31	215.41	506.63	1951.26	879.75	265.34	196.40	5003.05
1960	269.49	231.35	193.48	118.52	138.93	177.91	209.31	406.03	1173.66	338.25	194.64	132.50	3584.05
1961	164.99	181.85	151.18	135.72	132.93	124.51	85.11	427.83	1116.66	279.85	122.14	277.10	3199.85
1962	309.09	273.25	195.48	145.52	221.33	214.11	358.91	810.43	1730.66	905.55	405.94	294.80	5865.05
1963	248.29	216.65	186.58	133.02	228.43	162.81	182.81	783.03	1792.66	675.55	231.84	239.30	5080.95
1964	199.89	200.35	153.18	145.62	152.13	148.91	202.01	709.23	1719.66	1147.35	344.54	222.20	5345.05
1965	189.19	204.55	185.98	209.62	185.13	173.21	305.81	690.93	2088.76	1462.25	566.84	402.90	6665.15
1966	356.09	255.55	200.28	181.22	171.43	202.91	236.41	815.03	969.56	467.05	209.94	195.30	4260.75
1967	213.29	216.35	192.48	190.22	164.13	196.21	185.91	682.93	2445.76	1600.15	400.44	241.80	6729.65
1968	300.59	250.15	196.38	164.82	222.33	227.11	220.21	475.03	2032.86	1133.15	567.04	427.90	6217.55
1969	341.29	275.25	201.38	178.82	180.03	225.51	362.71	973.83	1325.76	942.65	282.74	197.50	5487.45
1970	252.69	225.65	189.68	156.42	159.83	167.31	183.41	1014.93	2174.96	1021.45	329.14	342.60	6218.05
1971	302.69	239.35	190.78	189.92	227.03	195.91	284.01	899.43	2216.96	1298.35	457.74	391.00	6893.15
1972	349.43	270.66	201.76	162.77	198.91	301.29	235.07	718.84	1958.36	872.91	477.52	393.17	6140.67
1973	391.17	285.77	201.45	192.63	171.48	201.67	290.92	858.64	1256.45	643.47	248.80	323.05	5065.51
1974	265.41	244.08	199.93	191.15	147.45	178.64	275.88	617.15	2438.16	1322.03	491.49	299.23	6670.65
1975	257.65	245.89	162.12	150.44	123.63	213.92	307.14	912.37	1955.56	2282.59	553.88	295.61	7480.79
AVG	245.26	214.90	171.68	151.82	150.81	188.14	240.56	725.59	1530.84	829.38	308.00	237.12	4994.09



Bighorn River  
near St. Xavier  
6-2870



## BIGHORN RIVER NEAR ST. XAVIER

STA 6-2870 RECORDED RUNOFF

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000 AF												
1935	96.60	80.80	67.30	67.10	70.50	85.90	96.90	172.80	1065.00	462.40	96.80	82.20	2444.30
1936	102.10	98.20	81.50	73.70	51.10	123.10	125.90	280.50	726.30	225.60	185.80	79.10	2152.90
1937	136.40	123.80	85.40	78.40	68.20	124.70	132.40	326.90	759.30	564.50	84.90	107.20	2592.10
1938	124.20	93.10	75.40	78.60	74.20	124.60	110.70	279.50	711.00	469.10	118.60	157.30	2416.30
1939	159.10	128.30	98.40	92.80	67.70	171.70	121.80	269.30	416.20	169.10	134.80	114.20	1943.40
1940	133.40	178.00	116.50	72.30	79.30	105.50	88.10	138.30	236.50	121.10	80.10	112.70	1461.80
1941	209.20	146.00	167.80	97.70	88.20	123.70	132.00	350.90	484.30	173.10	282.40	234.10	2489.40
1942	247.60	185.00	136.50	100.70	106.00	209.80	285.50	489.60	741.80	328.90	95.50	132.30	3059.20
1943	146.50	142.50	113.70	97.10	151.40	219.30	247.00	306.50	961.90	860.60	202.40	144.00	3592.90
1944	132.50	147.00	106.50	91.60	99.40	140.20	187.80	532.20	1053.00	554.70	99.80	114.00	3258.70
1945	136.00	133.30	87.90	118.50	112.10	167.40	142.30	282.40	684.40	617.30	213.50	231.80	2926.90
1946	197.00	150.80	129.70	128.30	117.50	186.00	199.30	258.40	608.20	326.40	113.30	202.30	2617.20
1947	179.70	141.60	124.60	99.00	105.50	178.80	167.70	537.60	909.70	839.10	233.40	145.90	3662.60
1948	185.60	167.10	133.20	124.80	176.00	255.60	187.70	302.90	833.50	301.90	116.70	146.00	2931.00
1949	142.50	135.80	105.00	119.30	115.90	233.00	147.50	335.40	621.00	258.70	89.90	149.50	2453.50
1950	196.70	169.70	129.20	142.80	152.40	170.80	150.40	210.10	588.10	536.50	196.80	215.40	2858.90
1951	239.60	190.70	171.20	133.60	149.60	175.30	201.30	384.30	688.00	607.80	306.80	176.40	3424.60
1952	173.00	151.00	121.80	135.90	119.50	134.30	172.70	325.40	322.50	176.20	152.50	137.00	2121.80
1953	170.90	144.00	140.70	151.90	148.50	152.30	145.70	154.30	313.90	121.30	125.60	123.40	1892.50
1954	155.50	174.70	161.20	119.60	95.50	99.70	121.80	242.60	234.70	253.50	130.90	132.20	1921.90
1955	162.40	162.40	165.20	139.40	105.50	167.60	206.80	228.80	315.80	141.70	109.40	113.30	2018.30
1956	132.30	133.70	161.50	173.90	172.10	196.30	144.20	240.60	383.10	185.80	129.70	167.60	2220.80
1957	195.90	208.30	172.70	128.30	127.00	148.20	126.30	288.70	723.70	655.10	164.80	168.10	3107.10
1958	243.20	238.10	197.50	214.90	205.40	190.00	128.90	251.00	296.00	112.20	248.40	230.70	2556.30
1959	242.70	220.30	203.80	171.10	91.80	127.60	124.90	135.10	285.90	163.50	110.30	125.10	2002.10
1960	187.80	150.90	149.80	128.20	128.10	174.90	101.20	100.40	181.90	70.30	100.50	117.80	1591.80
1961	109.40	83.00	73.70	71.30	87.00	86.90	73.30	131.80	163.60	82.80	82.10	190.30	1235.20
1962	172.20	162.40	132.30	110.30	208.60	279.10	246.20	255.80	450.30	329.90	187.10	187.70	2721.90
1963	199.90	173.90	155.30	115.30	151.90	139.50	128.70	204.60	759.00	353.30	126.90	167.00	2675.30
1964	198.50	193.30	187.10	188.10	123.70	157.50	217.70	340.40	555.80	460.10	161.20	159.50	2942.90
1965	183.40	167.10	155.30	168.60	178.70	213.50	225.40	237.70	703.10	870.60	276.00	205.80	3585.20
1966	269.00	51.00	172.40	156.30	77.50	20.10	40.30	55.30	64.10	85.30	77.50	63.90	1132.70
1967	83.80	104.50	149.80	117.00	123.00	162.30	138.40	145.60	417.70	1161.00	259.90	179.80	3042.80
1968	193.10	214.00	307.40	323.90	235.40	267.70	215.50	258.80	499.10	177.30	142.70	224.20	3059.10
1969	218.70	245.70	242.20	222.40	210.10	262.30	129.80	102.50	184.70	293.70	220.00	193.40	2525.50
1970	208.60	183.70	236.00	244.00	210.40	128.40	68.10	146.20	321.90	416.30	155.00	117.30	2435.90
1971	158.10	188.00	246.80	234.50	196.50	280.00	329.70	429.50	473.80	367.40	205.80	154.40	3264.50
1972	316.20	301.90	260.50	245.90	230.10	283.80	397.20	310.90	365.00	241.80	198.30	187.10	3338.70
1973	249.00	300.40	217.20	222.40	196.60	202.70	153.00	291.80	343.00	158.70	189.00	270.40	2794.20
1974	269.20	301.90	171.00	174.00	222.10	294.90	322.00	264.20	377.40	438.70	180.20	174.70	3190.30
1975	225.20	213.70	229.00	234.80	208.00	206.20	202.30	320.10	415.10	502.90	351.60	232.00	3340.90
AVG	182.50	167.80	154.63	144.10	137.51	174.91	167.91	266.33	518.03	371.61	164.31	160.17	2609.84



## BIGHORN RIVER NEAR ST XAVIER

## SUMMATION OF MONTHLY DEPLETIONS STA 6-2870

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000AF												
1935	-37.30	-59.76	-58.56	-85.38	-81.76	-66.55	-34.57	38.78	908.72	193.98	-27.39	-45.45	644.75
1936	-37.10	-43.16	-38.36	-127.28	-149.66	-77.85	-97	158.38	584.72	169.78	60.71	-49.45	449.75
1937	-1.80	-16.46	-34.06	-153.68	-163.66	-107.35	-19.67	171.18	577.12	231.08	-45.89	-27.05	409.75
1938	-15.40	-47.56	-48.86	-133.88	-138.06	-87.85	-23.97	142.18	550.82	216.88	-15.59	19.55	418.25
1939	18.90	-12.87	-35.16	-136.08	-160.96	-57.15	-4.77	160.38	305.92	202.18	20.41	-6.95	293.85
1940	-7.50	35.03	-4.06	-95.48	-88.26	-62.25	-38.87	27.88	125.12	153.38	-34.39	-9.45	1.15
1941	68.40	3.84	47.24	-98.98	-108.26	-72.95	4.73	241.68	361.22	102.88	110.51	58.85	719.15
1942	77.40	6.33	-41.36	-167.38	-161.86	-58.25	34.03	229.58	432.22	155.28	-34.59	-1.25	470.15
1943	7.30	1.83	-8.76	-163.08	-108.56	-40.85	-18.27	31.98	634.02	194.48	64.61	2.75	597.45
1944	-6.90	3.63	-36.06	-169.98	-161.96	-121.35	-167.87	162.78	609.22	235.78	-21.69	-10.95	314.65
1945	-1.60	-6.66	-31.56	-89.08	-95.26	-40.15	-19.27	116.78	489.62	195.28	33.11	47.95	599.15
1946	18.10	-36.56	-56.76	-133.08	-143.66	-75.35	39.13	94.18	415.92	175.98	-37.09	48.45	309.25
1947	30.80	-15.87	-32.06	-163.88	-157.16	-84.05	-128.37	230.68	543.02	205.08	66.21	-24.65	469.75
1948	20.00	-7.17	-40.16	-182.38	-130.96	-51.55	-34.87	73.18	560.82	164.68	-5.59	20.25	386.25
1949	5.20	-3.87	-14.26	-119.58	-122.76	-5.85	-36.87	145.88	397.42	145.88	-41.89	14.25	363.55
1950	57.40	29.23	1.94	-108.78	-98.96	-80.75	-5.47	50.48	401.32	151.78	18.01	33.05	449.25
1951	62.20	4.73	-13.96	-150.58	-134.36	-108.85	-1.57	175.28	440.62	30.18	122.91	-10.85	415.75
1952	-9.20	-39.66	-67.96	-145.38	-161.56	-146.95	-91.67	51.88	-3.58	68.88	32.61	13.75	-498.85
1953	31.60	2.53	20.74	-58.78	-61.96	-58.35	18.73	26.38	165.42	70.58	6.81	1.15	164.85
1954	16.20	33.63	41.44	-88.68	-112.56	-108.55	-5.07	133.98	124.82	122.28	13.31	11.15	181.95
1955	23.00	21.33	45.44	-34.48	-68.16	-6.25	79.83	109.88	178.52	61.28	-2.59	-5.85	401.95
1956	-6.00	-7.56	40.84	-22.58	-24.16	-15	-101.67	-13.52	80.02	46.68	12.71	47.15	51.75
1957	57.00	67.03	52.74	-101.19	-102.26	-81.25	-181.17	-30.22	341.22	193.48	.71	.45	216.55
1958	80.50	66.73	26.74	-33.38	-42.66	-58.25	-25.57	92.78	111.12	79.18	126.01	104.95	528.15
1959	104.60	79.83	84.14	-42.98	-122.06	-86.45	-1.67	26.08	175.62	64.98	-22.29	-10.95	248.85
1960	48.20	10.03	20.44	-84.28	-84.16	-37.55	-25.27	-10.42	69.72	98.78	-19.99	-10.35	-24.85
1961	-38.60	-72.06	-60.96	-51.68	-37.06	-46.45	-63.77	13.58	47.72	100.38	-51.69	48.45	-212.15
1962	-10	21.84	29.74	-25.28	72.83	142.05	54.83	58.78	217.22	53.68	46.21	43.35	715.15
1963	60.60	26.03	8.34	-132.38	-95.56	-108.15	-133.47	-66.72	434.72	165.08	-13.69	22.95	167.75
1964	49.80	45.63	40.34	-52.38	-116.57	-82.95	-49.37	63.98	225.62	27.48	23.31	18.15	193.05
1965	36.10	22.83	11.94	-92.58	-82.26	-47.65	-101.27	-101.32	295.92	116.48	82.41	8.85	149.45
1966	67.50	-149.36	-26.96	-45.38	-123.97	-181.55	-86.07	-54.32	-47.28	114.68	-40.39	-61.05	-634.15
1967	-70.70	-42.56	20.44	-62.68	-56.46	-17.35	-213.87	-220.22	-22.38	398.78	97.11	13.55	-176.35
1968	22.20	44.23	138.44	62.71	-25.56	6.55	-30.47	4.58	195.62	11.78	-52.19	25.95	403.85
1969	15.90	43.93	41.34	-36.78	-48.86	3.15	-54.57	-87.02	-38.48	129.18	87.11	57.15	112.05
1970	60.60	43.33	104.54	10.01	-23.36	-105.55	-176.47	-106.62	20.22	184.48	-.29	-41.45	-30.55
1971	-5.30	25.34	85.14	-49.28	-87.06	-3.75	11.53	99.38	78.12	-101.42	-13.79	-68.65	-29.75
1972	88.68	75.23	34.73	-100.19	-115.77	-62.26	166.00	71.34	78.86	10.39	-2.97	-16.60	227.45
1973	42.16	94.42	12.02	-29.39	-54.98	-49.07	.78	134.43	157.30	-38.63	-29.37	50.35	290.01
1974	47.14	80.81	-49.28	-86.59	-38.29	34.32	74.65	6.18	67.33	-28.92	2.55	-3.60	106.31
1975	46.02	35.31	51.21	-19.20	-45.89	-47.79	-45.07	59.14	101.07	-274.21	234.68	113.75	209.01



## BIGHORN RIVER NEAR ST XAVIER

1975 DEPLETION LEVEL STA 6-2870

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000AF												
1935	133.90	140.56	125.86	152.48	152.26	152.45	131.47	134.02	156.28	268.42	124.19	127.65	1799.55
1936	139.20	141.37	119.86	200.98	200.76	200.95	126.87	122.12	141.58	55.82	125.09	128.55	1703.15
1937	138.20	140.27	119.46	232.08	231.86	232.05	152.07	155.72	182.18	333.42	130.79	134.25	2182.35
1938	139.60	140.67	124.26	212.42	212.26	212.45	134.67	137.32	160.18	252.22	134.19	137.75	1998.05
1939	140.20	141.17	133.56	228.88	228.66	228.85	126.57	108.92	110.28	0.00	114.39	121.15	1682.63
1940	140.80	142.97	120.56	167.78	167.56	167.75	126.97	110.42	111.38	0.00	114.49	122.15	1492.93
1941	140.80	142.17	120.56	196.68	196.46	196.65	127.27	109.22	123.08	70.22	171.89	175.25	1770.25
1942	170.20	178.67	177.86	268.08	267.86	268.05	251.47	260.02	309.58	173.62	130.09	133.55	2589.05
1943	139.20	140.67	122.46	260.18	259.96	260.15	265.27	274.52	327.88	666.12	137.79	141.25	2995.45
1944	139.40	143.37	142.56	261.58	261.36	261.55	355.67	369.42	443.78	318.92	121.49	124.95	2944.05
1945	137.60	139.97	119.46	207.58	207.36	207.55	161.57	165.62	194.78	422.02	180.39	183.85	2327.75
1946	178.90	187.37	186.46	261.38	261.16	261.35	160.17	164.22	192.28	150.42	150.39	153.85	2307.95
1947	148.90	157.47	156.66	262.88	262.66	262.85	296.07	306.92	366.68	634.02	167.19	170.55	3192.85
1948	165.60	174.27	173.36	307.18	306.96	307.15	222.57	229.72	272.68	137.22	122.29	125.75	2544.75
1949	137.30	139.67	119.26	238.88	238.66	238.85	184.37	189.52	223.58	112.82	131.79	135.25	2089.95
1950	139.30	140.47	127.26	251.58	251.36	251.55	155.87	159.62	186.78	384.72	178.79	182.35	2409.65
1951	177.40	185.97	185.16	284.18	283.96	284.15	202.87	209.02	247.38	577.62	183.89	187.25	3008.85
1952	182.20	190.67	189.76	281.28	281.06	281.25	264.37	273.52	326.08	107.32	119.89	123.25	2620.65
1953	139.30	141.47	119.96	210.69	210.47	210.65	126.97	127.92	148.48	50.72	118.79	122.25	1727.65
1954	139.30	141.07	119.76	208.28	208.06	208.25	126.87	108.62	109.88	131.22	117.59	121.05	1739.95
1955	139.40	141.07	119.76	173.89	173.67	173.85	126.97	118.92	137.28	80.42	111.99	119.15	1616.35
1956	138.30	141.27	120.66	196.49	196.27	196.45	245.87	254.12	303.08	139.12	116.99	120.45	2169.05
1957	138.90	141.27	119.96	229.48	229.26	229.45	307.47	318.92	382.48	461.62	164.09	167.65	2890.55
1958	162.70	171.37	170.76	248.29	248.07	248.25	154.47	158.22	184.88	33.02	122.39	125.75	2028.15
1959	138.10	140.47	119.66	214.09	213.86	214.05	126.57	109.02	110.28	98.52	132.59	136.05	1753.25
1960	139.60	140.87	129.36	212.49	212.27	212.45	126.47	110.82	112.18	0.00	120.49	128.15	1645.13
1961	148.00	155.07	134.66	122.99	124.07	133.35	137.07	118.22	115.88	0.00	133.79	141.85	1464.93
1962	172.30	140.57	102.56	135.59	135.77	137.05	191.37	197.02	233.08	276.22	140.89	144.35	2006.75
1963	139.30	147.87	146.96	247.68	247.47	247.65	262.17	271.32	324.28	188.22	140.59	144.05	2507.55
1964	148.70	147.67	146.76	240.49	240.26	240.45	267.07	276.42	330.18	432.62	137.89	141.35	2749.85
1965	147.30	144.27	143.36	261.19	260.97	261.15	326.67	339.02	407.18	754.12	193.59	196.95	3435.75
1966	201.50	200.36	199.36	209.69	201.47	201.65	126.37	109.62	111.38	0.00	117.89	124.95	1796.23
1967	154.50	147.07	129.36	179.69	179.47	179.65	352.27	365.82	440.08	762.22	162.79	166.25	3219.15
1968	170.90	169.77	168.96	261.19	260.97	261.15	245.97	254.22	303.48	165.52	194.89	198.25	2655.25
1969	202.80	201.77	200.86	259.19	258.97	259.15	184.37	189.52	223.18	164.52	132.89	136.25	2413.45
1970	148.00	140.37	131.46	233.99	233.77	233.95	244.57	252.82	301.68	231.82	155.29	158.75	2466.45
1971	163.40	162.67	161.66	283.79	283.57	283.75	318.17	330.12	395.68	468.82	219.59	223.05	3294.25
1972	227.52	226.67	225.77	346.09	345.87	346.06	231.20	239.56	286.14	231.41	201.27	203.70	3111.25
1973	206.84	205.98	205.18	251.79	251.58	251.77	152.22	157.37	185.71	197.33	218.37	220.05	2504.19
1974	222.06	221.09	220.28	260.59	260.39	260.58	247.35	258.02	310.07	467.62	177.65	178.30	3083.99
1975	179.18	178.39	177.79	254.00	253.89	253.99	247.37	260.96	314.04	777.11	116.92	118.25	3131.89
AVG	157.48	158.93	148.27	231.95	231.77	232.20	202.98	205.03	240.17	262.85	146.05	149.89	2367.58



*Tongue River  
at Miles City  
6-3085*



## TONGUE RIVER AT MILES CITY

HISTORICAL FLOW STA

UNITS - 1000 AF



TONGUE RIVER AT MILES CITY

SUMMATION OF MONTHLY DEPLETIONS STA 6-3085

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1938	-1.29	-.82	-.54	-.65	-.16	.84	1.05	5.18	8.02	7.15	4.05	2.28	25.13
1939	-1.29	-.82	-.54	-.65	-.16	.84	1.05	5.18	8.02	7.15	4.05	2.28	25.13
1940	-1.29	-.82	-.64	-.65	-.16	.94	1.05	5.08	8.02	7.25	4.05	2.28	25.13
1941	-1.29	-.82	-.54	-.65	-.16	.94	.95	5.08	7.92	7.05	4.05	2.28	24.83
1942	-1.29	-.82	-.54	-.65	-.16	.84	.85	4.98	7.82	6.95	3.25	2.28	23.53
1943	-1.29	-.82	-.54	-.65	-.16	.84	.85	4.98	7.82	6.95	3.25	2.28	23.53
1944	-1.29	-.82	-.54	-.65	-.16	.84	.85	4.98	7.82	6.95	3.85	2.28	24.13
1945	-1.29	-.82	-.54	-.65	-.16	.84	.85	4.98	7.82	6.95	3.85	2.28	24.13
1946	-1.29	-.82	-.54	-.65	-.16	.84	.85	4.98	7.82	6.95	4.05	2.28	24.33
1947	-1.29	-.82	-.54	-.65	-.16	.94	.55	4.49	7.52	6.85	4.05	2.28	23.23
1948	-1.19	-.82	-.64	-.65	-.06	.54	.55	4.39	7.52	6.85	4.05	2.28	22.83
1949	-1.29	-.82	-.54	-.65	-.06	.64	.65	4.79	7.62	6.95	3.25	2.28	22.83
1950	-1.19	-.82	-.54	-.65	-.06	.54	.55	4.69	7.82	6.95	4.05	2.18	23.53
1951	-1.19	-.72	-.54	-.55	-.06	.54	.55	4.59	7.82	6.95	4.05	2.18	23.63
1952	-1.29	-.72	-.54	-.55	-.06	.34	.55	4.39	7.72	6.85	4.15	2.18	23.03
1953	-1.29	-.72	-.54	-.55	.04	.44	.55	4.49	7.92	6.85	4.15	2.18	23.53
1954	-1.29	-.72	-.44	-.55	-.06	.44	.45	4.39	7.92	6.15	4.15	2.18	22.63
1955	-1.19	-.72	-.44	-.55	-.06	.24	.45	4.39	8.12	6.75	4.15	2.18	23.33
1956	-1.19	-.72	-.44	-.55	-.06	.34	.35	4.19	7.22	6.85	4.15	2.18	22.33
1957	-1.19	-.72	-.54	-.45	-.06	.24	.25	4.09	8.22	6.75	4.15	2.18	22.93
1958	-1.29	-.72	-.54	-.45	-.06	.14	.25	3.99	8.32	6.75	4.15	2.08	22.63
1959	-1.29	-.72	-.54	-.45	-.06	.14	.15	3.89	8.22	6.75	4.15	2.08	22.33
1960	-1.19	-.82	-.54	-.45	-.06	.04	3.95	3.89	4.42	3.85	4.05	1.98	19.13
1961	-1.19	-.72	-.54	-.45	-.06	.14	.05	3.79	8.32	5.15	3.35	2.08	19.93
1962	-1.19	-.72	-.54	-.55	-.16	.14	.05	3.79	8.42	6.65	4.05	2.08	22.03
1963	-1.19	-.72	-.54	-.55	-.16	.04	-.05	3.69	8.42	6.55	3.95	2.08	21.53
1964	-1.19	-1.02	-.74	-.55	-.26	-.06	-.15	4.19	4.62	7.75	5.25	2.88	20.73
1965	-1.19	-1.02	-.74	-.55	-.26	.04	-.05	3.89	4.52	7.25	5.05	2.68	19.63
1966	-1.19	-.92	-.64	-.65	-.26	-.06	-.15	3.89	4.42	7.35	4.85	2.58	19.23
1967	-.49	-.32	-.44	-.45	-.16	-.06	-.15	3.09	2.82	3.75	3.45	1.98	13.03
1968	-.49	-.42	-.44	-.35	-.16	-.16	-.15	2.99	2.82	3.55	3.25	1.88	12.33
1969	-.49	-.32	-.34	-.35	-.16	-.16	-.25	2.89	2.62	3.45	3.15	1.68	11.73
1970	-.39	-.32	-.24	-.25	-.16	-.16	-.25	2.69	2.62	3.15	2.85	1.48	11.03
1971	-.39	-.32	-.24	-.25	-.16	-.16	-.25	2.69	2.62	3.15	2.85	1.48	11.03
1972	-.31	-.26	-.19	-.20	-.13	-.13	-.20	2.14	2.09	2.50	2.28	1.18	8.77
1973	-.24	-.20	-.15	-.15	-.10	-.10	-.16	1.59	1.55	1.86	1.71	.88	6.50
1974	-.16	-.13	-.10	-.10	-.07	-.07	-.11	1.04	1.01	1.21	1.13	.58	4.24
1975	-.08	-.07	-.05	-.05	-.04	-.04	-.07	.49	.48	.57	.56	.28	1.98



TONGUE RIVER AT MILES CITY

1975 DEPLETION LEVEL STA 6-3085

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS -- 1000AF													
1938	1.29	.82	.54	.65	.16	0.00	11.76	56.84	89.15	39.91	0.00	0.00	201.11
1939	5.58	11.15	4.97	8.53	10.05	37.13	17.84	3.49	60.22	1.03	0.00	2.43	162.41
1940	19.07	7.95	9.21	7.30	8.15	11.09	2.95	4.79	20.21	7.19	0.00	0.00	97.89
1941	20.29	6.86	7.07	6.99	6.59	7.27	2.75	15.61	47.32	0.00	.25	17.53	138.51
1942	32.89	35.62	20.04	12.45	8.56	26.56	22.45	39.02	100.18	11.05	0.00	7.22	316.03
1943	29.29	31.82	20.04	12.15	19.16	37.16	70.15	47.02	110.18	11.05	0.00	7.22	405.23
1944	18.29	30.32	18.04	10.65	6.16	35.16	29.15	83.02	224.18	105.05	0.00	.72	560.73
1945	16.29	35.32	19.04	12.45	10.16	25.16	20.65	23.02	128.18	49.05	0.00	9.22	348.53
1946	40.29	31.32	16.54	14.65	12.66	52.16	31.55	38.22	107.48	35.55	6.25	20.62	407.27
1947	41.36	34.54	22.06	24.95	18.51	90.86	47.09	83.33	82.07	48.25	2.65	7.43	503.08
1948	18.41	28.44	18.60	15.03	16.98	46.99	42.57	65.32	83.68	67.60	7.36	3.56	414.52
1949	19.84	33.72	11.17	10.24	6.44	84.67	28.97	46.27	62.25	.36	0.00	.13	304.05
1950	11.60	27.51	26.52	10.93	8.78	21.23	24.00	29.46	32.64	14.35	3.52	12.57	223.09
1951	22.44	24.97	13.69	13.24	12.48	13.74	14.05	25.74	28.09	23.36	12.41	26.81	231.05
1952	21.48	32.32	12.23	8.99	9.46	31.16	86.70	61.94	55.06	10.45	2.16	4.99	336.92
1953	21.87	13.96	13.22	11.65	9.21	13.06	8.35	22.56	98.38	1.84	0.00	0.00	214.08
1954	16.84	24.22	12.67	11.43	14.46	13.79	13.27	12.62	10.77	0.00	3.62	.34	134.01
1955	6.03	13.37	13.24	9.93	5.90	15.71	26.80	47.85	67.49	20.20	.12	0.00	226.62
1956	3.72	8.52	9.88	10.31	9.17	29.49	52.65	34.69	55.77	0.00	2.91	1.87	218.96
1957	5.93	18.22	14.30	8.56	7.86	14.53	21.67	25.73	112.68	28.87	2.31	15.35	275.99
1958	16.55	10.55	10.61	10.69	9.50	14.05	12.00	28.30	30.85	27.74	.81	.09	171.72
1959	14.55	15.96	15.45	12.58	10.68	91.05	31.77	23.78	16.70	3.02	9.41	9.42	254.35
1960	8.21	10.78	13.44	12.25	11.00	49.72	19.75	1.15	0.00	0.00	0.00	0.00	126.28
1961	1.83	6.24	4.86	5.28	5.70	4.77	.69	0.00	0.00	0.00	0.00	2.51	31.87
1962	6.10	5.43	8.71	8.91	15.33	34.70	36.65	45.73	121.08	18.55	4.00	11.21	316.38
1963	15.79	12.96	11.09	8.75	38.48	28.27	13.74	82.98	168.08	16.29	3.82	9.46	409.70
1964	2.76	5.59	5.02	9.31	10.62	12.04	18.13	47.87	143.88	52.24	12.64	14.78	334.86
1965	13.98	12.47	11.07	14.16	26.87	37.10	100.75	57.12	76.48	40.23	8.14	17.08	415.43
1966	36.45	20.45	12.09	9.41	8.06	15.53	8.37	8.57	9.14	2.75	1.54	4.22	136.56
1967	2.64	5.96	6.80	10.13	13.19	19.24	20.52	35.75	204.98	63.53	8.33	16.92	407.97
1968	14.70	19.88	14.98	17.80	30.69	47.86	26.84	30.04	159.68	37.19	32.23	33.75	465.62
1969	33.45	19.04	12.62	12.91	12.06	93.11	62.51	65.22	45.64	52.47	6.90	9.46	425.37
1970	12.83	8.79	13.97	13.48	14.76	25.09	35.92	91.74	157.38	27.84	5.65	10.98	418.42
1971	16.79	17.18	13.04	11.87	99.77	109.76	58.50	69.58	97.88	11.24	3.49	11.92	521.00
1972	43.00	21.61	12.57	10.57	18.48	95.22	56.70	45.85	80.02	19.10	12.51	14.13	429.76
1973	23.31	20.53	10.70	14.67	15.61	17.28	18.71	83.09	114.35	23.31	10.22	22.50	374.27
1974	29.09	23.86	10.34	26.10	20.14	18.69	20.61	46.12	74.49	20.38	10.79	7.93	308.53
1975	14.34	18.21	19.98	30.89	10.03	60.08	49.92	109.21	161.23	135.13	42.46	15.23	666.70
AVG	17.87	18.59	12.90	12.13	15.05	36.59	30.72	43.12	85.20	27.01	5.69	9.20	314.08



*Yellowstone River  
at Miles City  
6-3090*



## HISTORICAL FLOWS

STA 6-3090

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000 AF												
1929	478.00	418.00	338.00	295.00	265.00	1140.00	525.00	1350.00	2580.00	1430.00	376.00	399.00	9594.00
1930	390.00	292.00	285.00	216.00	443.00	461.00	484.00	855.00	1700.00	959.00	928.00	465.00	7478.00
1931	590.00	420.00	319.00	261.00	274.00	264.00	282.00	769.00	1670.00	291.00	319.00	220.00	5679.00
1932	314.00	237.00	204.00	200.00	135.00	366.00	388.00	1430.00	2530.00	1410.00	353.00	371.00	7928.00
1933	362.00	315.00	180.00	210.00	187.00	519.00	371.00	1000.00	2700.00	775.00	413.00	371.00	7403.00
1934	318.20	315.90	236.40	301.60	336.20	342.60	354.60	839.20	775.40	245.20	164.00	176.40	4445.70
1935	273.10	252.00	198.70	199.50	241.80	277.30	272.30	604.50	2450.00	1394.00	311.90	225.50	6701.20
1936	253.10	270.80	215.80	170.60	150.10	528.90	429.90	1192.00	1870.00	589.50	390.10	237.10	6297.90
1937	318.40	303.10	188.20	125.00	148.70	413.20	334.00	829.70	2033.00	1090.00	227.30	219.20	6229.80
1938	360.50	278.50	229.30	260.40	213.00	442.10	325.80	975.80	2708.00	1718.00	451.00	366.60	8329.00
1939	413.00	403.00	276.90	278.60	150.30	459.20	404.30	1010.00	1629.00	723.60	315.90	226.80	6290.60
1940	350.30	328.40	240.30	142.80	206.90	302.90	313.30	799.80	1488.00	516.10	167.20	196.40	5052.40
1941	479.90	299.60	316.40	219.70	222.50	315.10	335.00	947.80	1521.00	567.80	514.20	816.00	6555.00
1942	794.60	544.70	414.70	282.70	283.00	575.80	682.80	1382.00	2415.00	1314.00	391.20	349.40	9429.90
1943	432.20	403.90	330.40	256.90	533.60	840.60	905.10	1135.00	3339.00	2603.00	784.10	500.70	12064.50
1944	427.20	431.70	334.70	261.10	231.00	540.30	426.40	1170.00	3485.00	1909.00	451.00	406.00	10073.40
1945	421.90	400.40	242.50	313.60	289.00	513.50	356.70	781.90	2390.00	2004.00	650.40	514.80	8878.70
1946	544.60	430.10	286.80	364.60	318.50	486.00	552.50	934.40	2051.00	1027.00	336.20	510.40	7842.10
1947	533.90	416.60	309.90	186.20	193.00	537.10	570.10	1660.00	2453.00	1926.00	639.60	434.30	9859.70
1948	550.80	465.30	370.20	296.10	328.10	624.80	547.70	1301.00	3220.00	1347.00	469.40	313.00	9833.40
1949	400.40	403.10	209.10	182.50	236.80	643.00	526.90	1275.00	2097.00	912.60	283.30	374.10	7543.80
1950	472.00	429.80	247.10	209.50	279.90	626.80	578.50	785.10	2287.00	1972.00	724.30	546.30	9158.30
1951	657.80	509.80	434.50	306.80	334.50	576.60	568.50	1253.00	2094.00	1759.00	984.80	577.50	10056.80
1952	549.10	471.30	337.30	312.20	307.60	527.60	714.60	1625.00	2006.00	1012.00	543.30	380.70	8786.70
1953	417.30	357.70	306.40	358.90	308.80	376.10	348.00	550.20	2020.00	987.10	444.60	298.60	6773.70
1954	359.70	404.80	363.10	244.80	304.10	281.10	348.60	1096.00	1291.00	1244.00	453.20	301.90	6692.30
1955	380.80	379.70	344.10	272.20	252.60	314.60	597.80	808.20	1602.00	808.00	321.60	243.10	6324.70
1956	343.20	301.80	374.40	366.10	354.00	613.40	530.50	1383.00	2474.00	936.10	452.30	398.90	8527.70
1957	417.00	484.80	361.30	236.10	278.30	407.90	410.40	1265.00	3191.00	1898.00	485.10	512.30	9947.20
1958	539.50	523.90	417.30	402.00	381.10	421.40	349.70	1183.00	1646.00	717.30	463.40	396.10	7440.70
1959	452.00	438.50	392.70	326.70	242.10	695.70	395.70	658.30	2124.00	1052.00	359.70	330.90	7468.30
1960	494.80	407.60	397.80	254.90	300.90	521.60	361.50	483.70	1284.00	395.30	276.10	238.70	5416.90
1961	301.10	291.30	210.80	247.60	257.00	252.30	162.40	450.90	1299.00	355.90	160.80	487.50	4476.60
1962	534.30	480.70	305.30	276.10	510.60	611.10	639.60	1111.00	2364.00	1391.00	598.30	520.90	9342.90
1963	516.30	421.90	362.20	272.90	484.50	391.70	355.70	1072.00	2724.00	1092.00	327.50	439.70	8460.40
1964	402.60	419.40	327.30	361.80	311.80	317.80	498.80	1135.00	2524.00	1828.00	537.30	448.90	9112.70
1965	414.40	408.30	358.90	441.50	433.20	509.00	789.90	1029.00	2775.00	2462.00	888.50	701.10	11210.80
1966	705.10	368.90	381.40	305.30	285.80	448.50	343.80	763.30	1096.00	557.60	269.90	259.80	5785.40
1967	333.10	327.70	327.70	334.40	335.80	426.70	354.60	834.60	3115.00	2847.00	669.20	477.40	10383.20
1968	533.20	509.40	485.30	547.00	616.90	638.10	502.80	756.90	2784.00	1445.00	779.90	710.50	10309.00
1969	620.30	546.70	410.30	430.40	420.10	812.80	652.80	1219.00	1632.00	1438.00	497.80	392.70	9072.90
1970	497.40	444.50	445.30	435.60	476.80	422.70	360.60	1376.00	2717.00	1643.00	480.90	479.00	9778.80
1971	519.90	476.20	429.20	478.60	897.70	804.50	783.50	1332.00	2728.00	1713.00	649.20	601.10	11412.90
1972	797.20	599.70	455.60	394.70	510.80	1080.00	749.00	1141.00	2464.00	1192.00	708.40	600.40	10692.80
1973	699.90	645.80	379.10	471.30	454.20	501.30	561.90	1370.20	1750.40	857.00	440.00	671.00	8802.10
1974	618.30	637.40	438.00	400.80	419.80	518.80	658.10	944.70	2986.00	1910.00	694.60	524.50	10751.00
1975	538.60	563.80	444.60	449.90	374.10	627.90	643.60	1582.00	2493.00	2784.00	997.70	545.30	12044.50
AVG	470.66	414.48	329.01	301.32	330.20	517.41	482.74	1052.13	2225.00	1298.90	492.43	420.59	8334.86



## YELLOWSTONE RIVER AT MILES CITY

SUMMATION OF MONTHLY DEPLETIONS STA 6-3050

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	-65.90	-121.62	-120.71	-118.64	-118.55	-36.50	-36.26	75.61	687.76	349.75	36.62	26.30	557.86
1930	-18.60	-67.72	-61.01	-93.54	-84.75	-106.90	-23.86	109.51	722.06	367.45	152.22	51.70	946.56
1931	-42.00	-94.12	-89.41	-115.74	-119.15	-114.40	-71.66	120.01	639.76	130.65	30.82	-26.40	248.36
1932	-46.10	-70.32	-58.01	-72.94	-71.95	-98.20	-67.76	217.91	823.86	349.15	58.82	89.10	1053.56
1933	-61.70	-95.22	-104.81	-94.44	-104.95	-150.60	-87.16	27.71	843.46	233.45	121.92	-0.00	527.66
1934	-54.90	-106.52	-101.61	-98.64	-98.85	-33.70	34.14	150.21	337.86	126.35	9.42	-23.80	139.96
1935	-44.60	-67.72	-63.81	-88.54	-83.65	-66.70	-30.46	69.31	951.46	261.45	5.92	-28.10	814.56
1936	-44.40	-51.12	-43.61	-130.44	-151.55	-78.00	3.14	188.91	627.46	237.25	94.02	-32.10	619.56
1937	-9.10	-24.42	-39.31	-156.84	-165.55	-107.50	-15.56	201.71	619.76	298.55	-12.58	-9.70	579.46
1938	-22.70	-55.52	-54.11	-137.04	-139.95	-88.00	-19.86	172.71	593.46	284.35	17.72	36.90	587.96
1939	11.60	-20.82	-40.41	-139.24	-162.85	-57.30	-0.06	191.81	349.56	270.25	53.72	10.40	466.66
1940	-14.80	27.08	-9.41	-98.64	-90.15	-62.30	-34.36	58.91	168.16	221.25	-1.08	7.90	172.56
1941	61.10	-4.12	41.99	-102.14	-110.15	-73.00	8.84	272.41	403.76	170.35	143.82	76.20	889.06
1942	70.10	-1.62	-46.61	-170.54	-163.75	-58.40	37.24	258.81	473.26	221.85	-2.08	16.10	634.36
1943	-0.00	-6.12	-14.01	-166.24	-110.45	-41.00	-15.16	61.21	674.86	260.95	97.12	20.10	761.26
1944	-14.20	-4.32	-41.31	-173.14	-163.85	-121.50	-164.66	192.01	650.26	302.35	11.42	6.40	479.46
1945	-8.90	-14.42	-36.81	-92.24	-97.15	-40.30	-15.76	146.41	531.06	262.05	66.22	65.30	765.46
1946	10.80	-44.42	-62.11	-136.04	-145.55	-75.50	42.54	123.81	457.36	242.75	-3.68	65.80	475.76
1947	23.50	-23.82	-37.41	-166.94	-159.05	-84.10	-125.66	258.61	582.26	270.75	99.52	-7.30	630.36
1948	12.80	-15.02	-45.61	-185.54	-132.75	-52.00	-32.86	99.81	597.66	229.45	27.62	37.60	541.16
1949	-2.10	-11.72	-19.61	-122.64	-124.55	-6.20	-34.26	173.81	436.26	211.45	-9.38	31.60	522.66
1950	50.20	21.38	-3.51	-111.84	-100.75	-81.20	-3.36	77.11	438.56	216.45	51.32	50.30	604.66
1951	55.00	-3.02	-19.41	-153.54	-136.15	-109.30	.44	201.61	477.36	94.75	156.32	6.40	570.46
1952	-16.50	-47.42	-73.21	-148.34	-163.35	-147.70	-89.66	78.51	34.36	133.85	66.22	31.00	-342.24
1953	24.30	-5.22	15.49	-61.84	-63.65	-59.00	20.84	53.21	203.46	135.55	40.52	18.50	322.16
1954	8.90	25.88	36.19	-91.64	-114.35	-109.20	-3.16	160.61	162.86	186.45	46.82	28.60	337.96
1955	16.60	14.18	40.59	-37.14	-69.85	-7.00	81.34	135.11	215.76	121.75	29.62	10.90	551.86
1956	-12.40	-14.72	35.99	-25.34	-25.85	-7.70	-100.26	11.21	115.66	107.15	45.12	63.80	199.66
1957	51.10	60.28	47.99	-103.74	-103.95	-82.00	-180.46	-7.69	374.66	250.15	32.32	17.00	355.66
1958	74.50	59.98	22.09	-35.94	-44.35	-59.10	-24.16	116.21	146.36	136.95	157.52	121.30	671.36
1959	98.60	73.08	79.49	-45.64	-123.75	-87.30	-4.46	49.51	210.46	122.55	9.12	5.40	391.06
1960	43.10	3.88	16.09	-86.74	-85.75	-38.50	-20.26	12.01	99.26	149.45	10.02	5.50	108.06
1961	-43.70	-78.12	-65.31	-54.04	-38.65	-47.30	-62.96	35.71	81.06	151.95	-22.28	64.40	-79.24
1962	-5.20	15.58	25.39	-27.74	71.15	141.30	55.64	81.01	250.46	106.85	76.12	59.50	850.06
1963	55.50	19.78	4.09	-134.84	-97.35	-109.00	-132.76	-44.69	467.86	217.95	16.32	38.90	301.76
1964	45.90	40.08	36.39	-54.74	-118.45	-84.10	-48.96	84.11	251.66	74.35	52.22	34.00	312.46
1965	32.10	17.18	7.89	-94.84	-84.05	-48.70	-100.86	-81.69	321.36	162.85	111.12	24.50	266.86
1966	64.40	-154.22	-30.51	-47.64	-125.65	-182.61	-85.66	-36.29	-24.14	155.95	-13.38	-46.00	-525.74
1967	-71.10	-45.22	17.99	-64.34	-57.75	-18.50	-213.66	-205.49	-5.64	425.95	119.52	26.80	-91.44
1968	21.80	41.48	135.99	61.26	-26.85	5.20	-30.26	18.91	211.96	38.65	-30.08	39.10	487.16
1969	15.30	41.28	39.09	-38.24	-50.15	1.90	-54.66	-73.09	-22.64	155.75	109.02	70.00	193.56
1970	60.10	40.58	102.39	8.60	-24.65	-106.81	-176.76	-92.99	35.56	210.25	21.32	-28.80	48.86
1971	-5.70	22.58	83.09	-50.74	-88.35	-5.01	11.34	113.01	93.46	-75.55	7.82	-56.00	49.96
1972	88.36	73.02	33.09	-101.36	-116.80	-63.27	165.85	82.24	91.15	31.26	14.34	-6.48	291.40
1973	41.92	92.76	10.79	-30.27	-55.75	-49.83	.65	142.60	166.53	-22.78	-16.38	57.94	338.19
1974	46.98	79.70	-50.11	-87.18	-38.80	33.81	74.57	11.62	73.50	-18.08	11.23	1.47	138.71
1975	45.94	34.75	50.79	-19.49	-46.15	-48.04	-45.12	61.84	104.17	-268.38	239.04	116.28	225.61



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000AF												
1929	543.90	539.62	458.71	413.64	383.55	1176.51	561.26	1274.39	1892.24	1080.25	339.38	372.70	9036.14
1930	408.60	359.72	346.01	309.54	527.75	567.90	507.86	745.49	977.94	591.55	775.78	413.30	6531.44
1931	632.00	514.12	408.41	376.74	393.15	378.40	353.66	648.99	1030.24	160.35	288.18	246.40	5430.64
1932	360.10	307.32	262.01	272.94	206.95	464.20	455.76	1212.09	1706.14	1050.85	294.18	271.90	6874.44
1933	423.70	410.22	284.81	304.44	291.95	669.60	458.16	972.29	1856.54	541.55	291.08	371.00	6875.34
1934	373.10	422.42	338.01	400.24	435.05	376.30	360.46	688.99	437.54	118.85	154.58	200.20	4305.74
1935	317.70	319.72	262.51	268.04	325.45	344.00	303.36	535.19	1498.54	1132.55	305.98	253.60	5886.64
1936	297.50	321.92	259.41	301.04	301.65	606.90	426.76	1003.09	1242.54	352.25	296.08	269.20	5678.34
1937	327.50	327.52	227.51	281.84	314.25	520.70	349.56	627.99	1413.24	791.45	239.88	228.90	5650.34
1938	383.20	334.02	283.41	397.44	352.95	530.10	345.66	803.09	2114.54	1433.65	433.28	329.70	7741.04
1939	401.40	423.82	317.31	417.84	313.15	516.50	404.36	818.19	1279.44	453.35	262.18	216.40	5823.94
1940	365.10	301.32	249.71	241.44	297.05	365.20	347.66	740.89	1319.84	294.85	168.28	188.50	4879.84
1941	418.80	303.72	274.41	321.84	332.65	388.10	326.16	675.39	1117.24	397.45	370.38	739.80	5665.94
1942	724.50	546.32	461.31	453.24	446.75	634.20	645.56	1123.19	1941.74	1092.15	393.26	333.30	8795.54
1943	432.20	410.02	344.41	423.14	644.05	881.60	920.26	1073.79	2664.14	2342.05	686.98	480.60	11303.24
1944	441.40	436.02	376.01	434.24	394.85	661.80	591.06	977.99	2834.74	1606.65	439.58	399.60	9593.94
1945	430.80	414.82	279.31	405.84	386.15	553.80	372.46	635.49	1858.94	1741.95	584.18	449.50	8113.24
1946	533.80	474.52	348.91	500.64	464.05	561.50	509.96	810.59	1593.64	784.25	339.88	444.60	7366.34
1947	510.40	440.42	347.31	353.14	352.05	621.20	695.76	1401.39	1870.74	1655.25	540.08	441.60	9229.34
1948	538.00	480.32	415.81	481.64	460.85	676.80	580.56	1201.19	2622.34	1117.55	441.78	275.40	9292.24
1949	402.50	414.82	228.71	305.14	361.35	649.20	561.16	1101.19	1660.74	701.15	292.68	342.50	7021.14
1950	421.80	408.42	250.61	321.34	380.65	708.00	581.86	707.99	1848.44	1755.55	672.98	496.00	8553.64
1951	602.80	512.82	453.91	460.34	470.65	685.90	568.00	1051.39	1816.64	1664.25	828.48	571.10	9486.34
1952	565.60	518.72	410.51	460.54	470.95	675.30	804.26	1546.49	1971.64	878.15	477.08	349.70	9128.94
1953	393.00	362.92	290.91	420.74	372.45	435.11	327.16	496.99	1816.54	851.55	404.08	280.10	6451.54
1954	350.80	378.92	326.91	336.44	418.45	390.30	351.76	935.39	1128.14	1057.55	406.38	273.30	6354.34
1955	364.20	365.52	303.51	309.34	322.45	321.61	516.46	673.09	1386.24	686.25	291.98	232.20	5772.84
1956	355.60	316.52	338.41	391.44	379.85	614.10	630.76	1371.79	2358.34	828.95	407.18	335.10	8328.04
1957	365.90	424.52	313.31	339.84	382.25	489.90	590.86	1272.69	2816.34	1647.85	452.78	495.30	9591.54
1958	465.00	463.92	395.21	437.94	425.45	480.50	373.86	1066.79	1499.64	580.35	305.88	274.80	6769.34
1959	353.40	365.42	313.21	372.34	365.85	783.00	396.16	608.79	1413.54	929.45	350.58	325.50	7077.24
1960	451.70	403.72	381.71	341.64	386.65	560.11	381.76	471.69	1184.74	245.85	266.08	233.20	5308.84
1961	344.80	369.42	276.11	352.94	411.45	631.10	429.46	799.59	1120.14	401.65	283.28	305.80	6311.14
1962	539.50	465.12	279.91	303.84	295.65	299.61	225.36	415.19	1217.94	203.95	183.08	423.10	4555.84
1963	460.80	402.12	358.11	407.74	581.85	500.70	488.46	1116.69	2256.14	1284.15	522.18	461.40	8492.84
1964	356.70	379.32	290.91	416.54	430.25	401.90	547.76	1050.89	2272.34	1753.65	485.08	414.90	8800.24
1965	382.30	391.12	351.01	536.34	517.25	557.70	890.76	1110.69	2453.64	2299.15	777.38	676.60	10943.94
1966	640.70	523.12	411.91	352.94	411.45	631.10	429.46	799.59	1120.14	401.65	283.28	305.80	6311.14
1967	404.20	372.92	309.71	398.74	393.55	445.20	568.26	1040.09	3120.64	2421.05	549.68	450.60	10474.64
1968	511.40	467.92	349.31	485.74	643.75	632.90	533.06	737.99	2572.04	1406.35	809.98	671.40	9821.84
1969	605.00	505.42	371.21	468.64	470.25	810.90	707.46	1292.09	1654.64	1282.25	388.78	322.70	8879.34
1970	437.30	403.92	342.91	426.94	501.45	529.51	537.36	1468.99	2681.44	1432.75	459.58	507.80	9729.94
1971	525.60	453.62	346.11	529.34	986.05	809.51	772.16	1218.99	2674.54	1788.55	641.38	657.10	11362.94
1972	708.84	526.68	422.51	496.06	627.60	1143.27	583.15	1058.76	2372.85	1160.74	694.06	606.88	10401.40
1973	657.98	553.04	368.31	501.57	509.95	551.13	561.25	1227.60	1583.88	879.77	456.38	613.06	8463.91
1974	571.32	557.70	488.11	487.98	458.60	484.99	583.53	933.08	2912.50	1928.08	683.37	523.03	10612.30
1975	492.66	529.05	393.81	469.39	420.25	675.94	688.72	1520.16	2388.84	3052.38	758.66	429.02	11818.89
AVG	459.47	423.93	338.55	392.76	426.56	579.42	517.05	963.72	1868.69	1122.21	442.66	395.73	7930.75



Powder River  
near Locate  
6-3265



YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1939	4.30	8.55	9.48	4.79	130.50	29.90	41.48	1.63	77	317.94
1940	3.06	3.89	5.54	2.13	32.64	31.64	27.42	11.89	3.64	205.20
1941	56.61	7.94	12.82	11.04	26.52	64.43	176.00	67.37	53.46	612.07
1942	39.35	21.78	25.62	6.21	11.50	65.34	50.72	15.34	1.69	421.93
1943	9.55	8.34	9.45	11.56	156.30	74.59	63.67	8.24	6.57	761.35
1944	3.73	6.33	6.33	3.87	3.54	235.50	133.40	14.45	5.49	1177.78
1945	5.32	10.34	4.24	6.23	15.45	54.49	53.77	26.71	16.28	469.26
1946	15.80	13.46	9.68	16.42	23.27	63.63	46.44	13.14	25.93	473.16
1947	42.46	19.35	20.15	15.36	38.26	201.90	71.47	4.96	1.75	722.16
1948	7.50	9.87	10.10	6.35	102.80	210.00	39.02	20.04	4.95	691.03
1949	12.74	16.47	5.37	4.40	3.99	232.00	49.47	1.12	1.26	499.09
1950	8.44	13.05	3.75	2.24	1.14	4.93	73.54	5.84	1.66	262.19
1951	10.89	7.27	7.94	5.14	5.00	28.99	26.67	22.24	37.57	216.98
1952	16.55	19.34	23.60	5.01	12.34	107.00	112.50	7.02	3.35	486.75
1953	3.30	6.01	6.20	7.51	11.40	35.25	20.65	29.12	1.40	278.07
1954	4.53	4.28	7.82	7.33	20.17	28.15	18.95	19.46	11.84	163.53
1955	.54	3.66	5.28	3.87	4.25	35.93	91.03	13.01	.50	309.16
1956	.84	2.45	4.69	7.18	5.47	76.20	30.72	9.25	2.09	243.09
1957	.44	3.94	7.04	5.23	4.78	25.74	20.81	4.80	5.68	285.06
1958	7.75	11.32	7.58	9.50	10.77	20.31	24.68	14.85	.53	274.24
1959	4.03	4.95	8.94	6.42	7.27	164.50	29.45	.50	.67	330.24
1960	4.24	6.44	10.31	6.36	9.17	128.20	29.31	.14	.01	218.27
1961	.11	.75	.77	1.10	2.39	17.91	6.49	.89	4.61	57.50
1962	7.20	5.32	3.04	1.98	77.17	53.53	41.88	26.16	12.89	761.10
1963	28.53	16.27	9.92	7.54	63.73	45.42	27.24	4.47	14.23	532.54
1964	7.57	11.26	5.67	7.31	7.45	30.09	34.26	7.23	3.34	424.34
1965	2.58	4.56	5.75	10.32	15.75	16.52	182.20	16.13	10.30	494.88
1966	16.20	13.05	7.65	8.18	7.79	31.32	25.99	1.95	4.14	156.15
1967	4.75	5.05	5.83	6.03	11.18	33.20	23.41	9.79	23.87	601.50
1968	15.81	16.44	7.06	6.47	26.42	121.40	31.67	39.81	30.41	613.49
1969	18.11	18.94	8.41	11.27	9.90	136.90	74.70	5.10	.91	426.91
1970	4.10	11.45	5.95	7.24	14.90	55.64	33.20	1.77	.66	406.16
1971	6.54	13.51	7.39	5.45	113.30	176.20	70.54	1.55	2.07	647.54
1972	54.38	22.26	6.31	7.96	79.02	284.50	42.49	22.20	18.60	720.82
1973	20.58	21.80	6.95	11.50	13.54	37.33	44.24	16.24	38.88	458.55
1974	21.04	18.87	8.53	28.22	32.33	45.47	55.08	7.69	8.67	336.82
1975	16.04	19.14	12.53	11.00	13.07	59.43	50.82	11.66	2.95	586.48
AVG	13.14	11.10	8.60	7.64	27.34	87.08	50.35	13.07	9.83	450.36

U.F.I.S. - 1000 AF



## POWER - Five Yearly Data

SUMMARY OF ANNUAL APPLICATIONS - 1939-1975

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 100000													
1939	.05	.12	.31	.21	.73	4.77	6.26	10.71	11.16	5.54	2.66	1.75	42.94
1940	.05	.12	.21	.21	.73	4.77	5.96	10.71	10.82	5.54	2.66	1.75	42.44
1941	.05	.12	.21	.11	.63	4.47	5.66	9.81	10.12	5.34	2.66	1.75	40.04
1942	.05	.12	.21	.11	.63	4.57	5.86	10.31	10.52	5.54	2.76	1.75	41.54
1943	.05	.12	.21	.11	.63	3.67	4.86	9.41	9.62	5.24	2.76	1.75	37.54
1944	.05	.12	.21	.11	.63	3.47	4.46	9.01	9.22	5.14	2.76	1.75	36.04
1945	.05	.12	.21	.11	.63	3.57	5.26	10.21	10.42	5.54	2.76	1.75	40.24
1946	.05	.12	.21	.11	.63	3.87	4.86	9.41	9.62	5.34	2.76	1.85	37.94
1947	.05	.12	.21	.21	.63	3.27	4.26	8.81	9.22	5.34	2.66	1.95	35.74
1948	.05	.12	.11	.11	.63	3.07	4.16	8.71	9.02	5.34	2.76	1.75	35.14
1949	.05	.12	.11	.11	.63	3.07	4.16	8.61	8.92	5.24	2.56	1.75	34.64
1950	.05	.12	.11	.11	.63	3.47	4.46	8.81	9.12	5.24	2.76	1.75	35.84
1951	.05	.12	.11	.11	.63	2.87	4.06	8.61	8.92	5.34	2.76	1.75	34.74
1952	.05	.12	.11	.11	.63	3.37	4.36	8.81	8.82	5.24	2.76	1.75	35.34
1953	.05	.12	.11	.11	.63	3.27	4.26	8.91	8.82	5.24	2.76	1.75	35.24
1954	.05	.12	.11	.11	.63	3.17	5.66	8.71	6.92	3.54	2.66	1.75	32.64
1955	.05	.12	.11	.21	.73	2.87	5.26	8.21	6.42	4.94	2.76	1.65	32.34
1956	.15	.22	.11	.21	.63	2.47	3.36	7.81	7.42	4.94	2.66	1.65	30.54
1957	.05	.12	.11	.21	.63	2.37	2.76	7.71	7.32	4.84	2.46	1.65	29.44
1958	.05	.12	.11	.21	.63	2.27	2.76	7.51	7.12	4.64	2.56	1.65	28.64
1959	.15	.22	.01	.21	.63	2.67	3.36	7.91	7.72	4.64	1.86	1.55	30.04
1960	.15	.22	.01	.21	.63	2.47	3.16	7.61	7.42	4.24	1.46	1.05	27.74
1961	.15	.12	.01	.21	.63	1.87	2.46	7.01	6.82	4.14	2.16	1.55	26.44
1962	.15	.12	.01	.21	.63	1.97	2.46	6.61	6.62	4.24	2.16	1.55	26.04
1963	.15	.12	.01	.11	.73	1.87	2.36	6.61	6.52	4.24	2.16	1.55	25.84
1964	.05	.12	.11	.11	.73	1.67	2.16	6.01	5.82	4.24	2.16	1.45	23.84
1965	.05	.12	.11	.11	.63	1.57	1.96	5.71	5.22	4.14	2.26	1.45	22.64
1966	.05	.12	.11	.11	.63	1.37	1.76	5.41	4.92	3.94	2.16	1.35	21.14
1967	.35	.08	.19	.07	.73	1.27	1.66	4.11	3.52	1.74	1.36	.95	16.04
1968	.45	.18	.09	.01	.73	1.07	1.26	3.81	3.22	1.74	1.26	.95	14.74
1969	.45	.18	.19	.01	.73	.87	1.16	3.31	2.72	1.54	1.26	.95	13.44
1970	.45	.08	.09	.07	.73	.87	.96	2.81	2.22	1.44	1.26	.85	11.84
1971	.45	.18	.19	.07	.73	.87	.96	2.81	2.22	1.34	1.26	.85	11.94
1972	.36	.14	.15	.07	.70	.83	.59	2.42	1.78	1.06	1.00	.68	9.79
1973	.27	.11	.11	.05	.09	.18	.54	2.02	1.35	.83	.78	.51	6.84
1974	.18	.07	.08	.05	.06	.14	.33	1.26	.91	.54	.55	.34	4.53
1975	.09	.03	.04	.02	.03	.10	.14	.69	.48	.30	.29	.17	2.37



## 1975 DEPLETION LEVEL ST. 6-3003

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1939	4.27	8.67	9.79	5.94	4.06	125.83	23.84	30.77	54.22	6.86	0.00	0.00	277.00
1940	3.01	4.01	5.75	2.15	1.40	27.42	25.72	16.71	35.24	28.62	9.23	1.93	162.76
1941	56.55	8.11	13.03	8.03	10.43	22.00	43.17	166.19	69.47	38.56	64.71	51.71	572.03
1942	29.30	21.88	25.83	6.32	10.87	60.77	44.80	77.47	73.73	6.93	12.58	0.00	380.44
1943	9.20	2.30	10.00	11.67	213.17	152.63	54.73	54.26	146.20	37.74	5.46	4.82	723.81
1944	3.00	4.75	6.54	4.08	2.55	232.04	129.34	100.79	469.44	88.62	11.69	3.74	1141.74
1945	6.47	10.39	3.50	5.49	15.32	61.02	34.13	43.56	146.93	52.79	23.95	14.53	429.02
1946	15.75	13.90	9.89	16.53	22.64	59.96	41.58	68.15	97.78	56.49	10.38	24.08	435.22
1947	42.41	19.37	20.36	15.57	37.63	193.63	67.21	132.79	100.50	49.66	2.30	0.00	686.61
1948	7.55	9.99	10.21	6.40	102.17	206.93	34.85	56.48	126.10	74.57	17.28	3.20	655.89
1949	12.59	16.54	5.48	4.51	3.36	224.93	45.31	57.86	79.71	11.94	0.00	0.00	466.37
1950	8.93	13.37	3.46	3.33	0.00	1.44	59.04	80.17	53.32	13.24	3.08	0.00	246.91
1951	10.94	7.49	8.07	5.23	5.97	26.02	22.61	20.69	11.05	8.66	19.48	35.82	182.24
1952	16.50	19.60	23.71	5.12	11.76	103.63	104.24	90.16	44.35	22.37	4.26	1.60	451.41
1953	3.25	6.23	6.31	7.42	10.77	31.94	14.39	22.12	108.74	3.36	26.36	0.00	243.17
1954	4.43	4.30	7.93	7.44	19.54	24.98	13.29	22.31	.83	0.00	16.80	10.09	132.20
1955	.53	3.88	5.39	4.03	3.52	33.05	85.77	46.40	59.77	25.31	10.25	0.00	277.96
1956	.69	2.67	4.80	7.39	4.84	73.73	27.38	40.04	40.70	3.29	6.59	.44	212.55
1957	.43	4.11	7.19	5.44	4.15	23.37	17.55	19.33	133.94	33.39	2.34	4.03	255.61
1958	7.70	11.54	7.79	9.71	10.14	14.04	21.92	43.38	51.84	52.36	12.29	0.00	246.71
1959	3.88	5.21	8.95	6.63	6.64	141.83	26.09	31.31	34.71	17.18	0.00	0.00	302.43
1960	4.09	6.70	10.32	6.59	6.54	125.73	26.15	2.34	3.77	0.00	0.00	0.00	194.23
1961	0.00	.87	.72	1.31	1.74	14.04	4.03	1.74	4.14	0.00	0.00	3.06	33.73
1962	7.05	5.44	3.10	2.17	76.54	51.56	39.42	133.29	262.15	118.44	24.00	11.34	735.06
1963	28.48	16.45	9.93	7.65	23.00	43.95	24.88	59.87	191.03	46.37	2.31	12.68	506.70
1964	7.52	11.48	5.78	7.42	6.72	28.42	32.10	40.97	188.04	65.04	5.07	1.89	400.50
1965	2.53	4.78	5.76	10.45	15.12	14.95	180.24	64.47	107.53	43.65	13.87	8.85	472.24
1966	16.15	13.31	7.76	8.29	7.16	29.95	24.23	20.63	2.34	2.55	0.00	2.79	135.21
1967	4.40	5.01	5.64	5.48	10.45	31.93	21.75	69.34	295.48	104.16	8.43	22.92	585.46
1968	15.36	16.26	6.97	6.48	25.69	120.33	30.41	50.51	217.28	41.44	38.55	29.46	598.75
1969	17.66	18.70	8.22	11.20	2.17	135.93	73.54	40.44	27.95	46.71	3.84	0.00	413.50
1970	3.65	11.37	5.86	7.15	14.17	54.77	32.24	110.29	130.44	24.01	.51	0.00	394.50
1971	6.09	13.33	7.20	5.38	112.57	177.33	69.58	71.74	154.44	16.40	.29	1.22	635.60
1972	54.02	22.12	5.16	7.91	18.32	283.67	41.90	51.34	90.03	26.45	21.20	17.92	711.03
1973	20.31	21.59	5.84	11.45	13.45	37.15	43.70	118.18	99.05	26.06	15.40	38.37	451.71
1974	20.66	18.80	8.45	24.19	32.27	45.33	54.75	54.31	39.38	9.49	7.14	8.33	332.29
1975	15.95	19.11	12.49	10.43	13.04	59.34	50.58	122.11	170.52	95.74	11.37	2.78	584.11
AVG	13.05	11.20	6.67	7.79	26.73	84.62	47.10	63.40	106.06	35.11	11.11	8.58	423.42

UNITS - 1000AF



*Yellowstone River*  
*near Sidney*  
*6-3295*



HISTORICAL FLOWS STA 6-3245

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000 AF						
1929	485.00	450.00	343.00	301.00	241.00	1300.00	427.00	1390.00	2770.00	1410.00	432.00	430.00	10439.00
1930	480.00	371.00	357.00	281.00	661.00	726.00	631.00	916.00	1560.00	910.00	867.00	547.00	8307.00
1931	646.00	423.00	375.00	262.00	248.00	320.00	352.00	769.00	1810.00	291.00	295.00	162.00	6083.00
1932	339.00	253.00	140.00	201.00	146.00	422.00	526.00	154.00	256.00	151.00	405.00	431.00	3514.00
1933	412.00	333.00	202.00	221.00	167.00	738.00	427.00	121.00	284.00	836.00	414.00	450.00	4635.00
1934	320.10	344.90	207.10	275.10	259.60	348.20	433.00	740.10	727.90	226.50	154.30	142.20	4209.00
1935	294.20	249.60	142.60	159.60	245.90	322.70	324.80	600.10	2473.00	1491.00	345.00	199.00	6907.50
1936	258.80	268.70	228.10	199.80	155.40	681.40	495.10	1195.00	1498.00	625.40	359.10	207.10	6571.90
1937	321.20	327.60	213.70	128.30	158.50	417.70	404.70	805.30	2369.00	1381.00	229.60	271.80	6958.40
1938	376.10	269.50	149.90	268.50	189.20	573.50	370.40	965.10	2940.00	1910.00	480.80	377.50	8910.50
1939	399.70	386.10	253.60	246.50	166.40	737.70	423.80	1066.00	1613.00	702.60	284.80	192.60	6525.20
1940	331.10	348.40	248.80	134.50	220.70	334.60	377.80	795.30	1593.00	524.70	160.10	163.90	5232.90
1941	582.40	277.10	327.50	213.80	239.90	361.70	411.40	1033.00	1656.00	604.30	599.90	952.10	7275.00
1942	889.40	577.10	464.40	278.90	319.20	823.70	688.70	1387.00	2527.00	1300.00	393.20	320.90	9969.50
1943	450.60	455.80	284.10	270.50	791.60	1221.00	1092.00	1157.00	3461.00	2854.00	821.50	477.10	13336.20
1944	401.80	443.10	349.40	265.00	259.30	942.30	734.80	1269.00	4028.00	2022.00	462.10	369.70	11546.50
1945	431.60	413.60	243.30	327.40	304.90	722.00	429.40	790.50	2409.00	2132.00	650.70	508.60	9363.00
1946	557.80	434.10	260.40	344.10	300.50	641.90	547.80	908.60	2066.00	1106.00	287.70	533.40	8038.30
1947	620.50	480.80	367.30	230.70	244.30	1130.00	714.00	1748.00	2460.00	1956.00	623.90	394.50	11020.00
1948	564.40	498.70	388.00	299.50	346.90	763.20	657.30	1172.00	3467.00	1510.00	461.00	253.40	10381.40
1949	403.30	422.40	195.10	200.10	231.70	717.40	625.00	1166.00	2133.00	913.10	238.20	313.10	7558.40
1950	458.90	434.30	246.70	195.80	305.90	639.70	907.80	782.00	3222.00	1878.00	675.00	496.40	9342.50
1951	625.40	459.10	434.40	320.40	336.00	553.40	744.40	1089.00	2025.00	1660.00	955.40	589.00	9791.50
1952	536.80	493.90	243.80	329.30	402.60	623.60	1400.00	1546.00	2074.00	974.00	495.10	328.00	9487.10
1953	382.50	349.90	305.70	351.90	329.70	407.30	344.30	569.60	2182.00	956.70	421.50	241.60	6842.70
1954	338.90	401.30	343.40	195.40	395.70	320.20	477.40	1076.00	1193.00	1245.00	471.80	301.60	6759.70
1955	369.90	387.30	353.70	241.90	256.50	343.60	755.30	854.40	1599.00	872.80	291.60	180.00	6506.00
1956	335.30	299.90	342.30	386.00	344.30	782.50	591.70	1254.00	2544.00	925.10	427.90	371.40	8604.40
1957	399.60	498.90	382.80	264.20	263.00	511.10	449.10	1142.00	3244.00	1900.00	437.80	449.70	9942.20
1958	522.30	523.00	411.50	398.90	334.00	529.00	405.80	1053.00	1663.00	784.60	409.40	345.70	7380.20
1959	453.20	441.50	379.90	315.60	241.20	1154.00	441.00	638.80	2040.00	1092.00	290.80	279.20	7767.20
1960	489.70	377.50	394.30	247.70	340.20	843.40	413.80	447.40	1218.00	349.60	211.50	178.10	5511.20
1961	281.30	284.80	185.70	264.80	261.40	319.20	167.90	332.60	1309.00	305.50	98.53	449.60	4260.33
1962	540.20	466.80	281.70	298.50	609.70	725.40	711.90	1264.00	2725.00	1721.00	610.30	497.70	10452.20
1963	556.20	454.90	390.00	285.20	600.60	562.70	393.10	1219.00	3234.00	1218.00	293.80	431.90	9639.40
1964	411.80	439.10	316.50	393.10	352.10	377.90	545.40	1150.00	2763.00	2036.00	548.20	464.80	9797.90
1965	418.90	419.90	318.00	440.10	441.50	573.00	1210.00	1140.00	3112.00	2926.00	906.30	655.00	12560.70
1966	736.10	384.50	412.00	355.80	333.00	593.50	345.40	675.60	1045.00	532.70	237.80	218.50	5869.90
1967	359.00	340.60	360.20	329.10	351.70	495.10	438.90	906.60	3364.00	3057.00	662.00	492.40	11156.60
1968	583.30	539.10	477.80	594.80	587.70	886.70	543.40	737.60	2938.00	1482.00	772.80	752.30	10895.50
1969	651.30	607.90	460.60	457.20	449.50	1104.00	793.00	1170.00	1610.00	1562.00	442.60	343.30	9651.40
1970	506.80	474.50	467.90	449.10	540.90	564.50	428.50	1414.00	2857.00	1654.00	446.50	438.90	10242.60
1971	526.60	495.10	482.60	523.80	985.80	1168.00	885.00	1332.00	3004.00	1807.00	607.00	598.80	12415.70
1972	947.40	639.40	421.30	404.80	599.80	1598.00	790.80	1183.00	2576.00	1191.00	682.90	587.80	11622.20
1973	718.80	680.80	419.90	517.70	492.10	635.60	646.50	1455.50	1941.00	855.00	401.60	728.00	9492.50
1974	669.70	620.00	445.30	411.80	446.30	557.00	708.90	952.30	2958.00	1971.00	660.40	520.80	10921.50
1975	582.30	596.70	482.40	460.40	332.20	751.00	762.70	1789.00	2678.00	2991.00	998.90	578.40	13003.00
AVG	488.66	430.13	332.57	312.16	361.72	677.97	592.66	1008.54	2228.06	1336.25	477.07	407.36	8653.15



## YELLOWSTONE RIVER NEAR SILEBY

SUMMATION OF MONTHLY DEPLEITIONS SFA 6-3295

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1929	-64.64	-124.75	-123.08	-117.63	-116.04	-30.14	-27.68	108.57	723.11	397.81	68.78	45.75	739.97
1930	-17.34	-70.35	-62.88	-92.53	-62.24	-100.04	-14.78	140.97	755.91	412.11	181.98	69.65	1120.37
1931	-40.74	-96.55	-51.08	-114.63	-116.64	-107.34	-62.38	150.77	672.91	172.71	58.88	-9.15	416.67
1932	-44.84	-72.75	-59.68	-71.93	-69.44	-91.49	-58.98	248.07	856.41	391.01	86.78	106.35	1219.47
1933	-60.44	-97.35	-106.18	-93.43	-102.44	-143.59	-78.08	57.07	875.21	274.11	149.08	16.45	690.37
1934	-53.64	-108.45	-102.78	-97.63	-96.34	-27.19	44.31	180.07	370.11	165.91	35.38	-7.95	301.77
1935	-43.34	-69.45	-64.78	-67.53	-61.14	-58.89	-20.34	97.87	982.41	299.11	30.78	-12.85	971.77
1936	-43.14	-52.35	-43.98	-129.43	-149.04	-69.75	13.72	215.97	657.01	271.81	116.58	-18.25	769.07
1937	-7.84	-25.59	-39.68	-155.83	-163.04	-99.39	-5.48	227.77	648.21	332.11	9.38	3.75	724.37
1938	-21.34	-56.65	-54.48	-136.03	-137.34	-79.69	-9.38	199.37	622.61	318.11	39.58	50.35	735.07
1939	12.96	-21.95	-41.38	-138.33	-160.54	-48.99	10.42	218.37	378.71	303.91	75.48	23.95	612.57
1940	-13.44	26.21	-9.98	-97.73	-87.84	-53.79	-23.98	84.67	196.21	253.01	19.38	20.65	313.37
1941	62.46	-4.85	41.62	-101.13	-107.94	-64.29	19.12	296.47	430.31	200.21	163.08	88.25	1023.27
1942	71.36	-2.05	-46.68	-169.63	-161.64	-49.59	47.91	282.07	498.81	248.91	15.08	26.85	761.37
1943	1.06	-6.45	-13.98	-165.33	-108.34	-33.19	-5.58	83.07	699.11	286.91	113.68	30.45	881.37
1944	-13.14	-4.55	-41.18	-172.33	-161.84	-113.99	-155.48	212.67	673.31	326.81	26.98	16.05	593.27
1945	-7.94	-14.05	-36.18	-91.53	-95.24	-31.99	-5.58	166.47	552.51	283.11	79.08	73.35	871.97
1946	11.76	-43.99	-61.68	-135.43	-143.74	-67.29	52.31	141.97	477.91	261.41	7.48	72.95	573.67
1947	24.36	-23.15	-36.98	-166.53	-157.34	-77.19	-116.78	275.57	601.81	288.81	110.18	-35	722.37
1948	13.56	-14.59	-45.08	-185.13	-131.14	-45.29	-24.38	116.37	616.71	247.31	38.18	44.25	630.77
1949	-1.44	-11.39	-19.18	-122.23	-122.94	.21	-26.18	189.97	454.91	229.11	.88	38.05	609.77
1950	50.66	21.81	-2.98	-111.53	-99.24	-74.39	5.02	92.67	456.61	232.71	60.78	56.05	688.17
1951	55.56	-2.75	-18.98	-153.33	-134.74	-103.19	7.72	216.97	495.21	111.01	165.68	12.15	651.27
1952	-15.74	-47.25	-72.88	-148.23	-162.04	-141.49	-82.18	93.77	51.81	149.71	75.38	36.65	-262.53
1953	25.06	-5.19	15.72	-61.83	-62.44	-52.99	28.02	68.37	220.71	151.31	49.58	24.05	400.37
1954	9.56	25.91	36.42	-91.73	-113.24	-103.59	5.02	175.47	177.91	200.31	55.68	34.05	411.77
1955	17.16	14.11	40.72	-37.33	-68.64	-1.89	88.91	149.17	230.11	136.91	38.48	16.15	623.87
1956	-11.84	-14.89	36.02	-25.63	-24.84	3.71	-94.88	24.67	130.91	122.31	53.78	68.95	268.27
1957	51.46	60.01	47.92	-104.13	-103.04	-77.89	-175.68	5.47	389.51	265.01	40.68	22.15	421.47
1958	74.76	59.61	21.92	-36.43	-43.54	-55.39	-19.68	129.07	160.61	151.51	165.88	126.35	734.67
1959	98.96	72.71	79.32	-46.23	-123.04	-83.39	4.42	62.57	225.21	137.01	16.68	10.25	454.47
1960	43.36	3.41	15.92	-87.33	-85.04	-34.99	-15.68	24.57	113.41	163.41	17.08	9.75	167.87
1961	-43.44	-78.45	-65.48	-54.63	-37.94	-44.49	-59.28	47.67	94.61	165.71	-14.72	69.15	-21.33
1962	-4.94	15.21	25.22	-28.33	71.86	144.01	59.11	92.37	263.81	120.51	83.68	64.15	906.67
1963	55.76	19.31	3.92	-135.33	-96.54	-106.49	-129.44	-33.43	480.81	231.51	23.78	43.55	357.37
1964	46.06	39.61	36.02	-55.03	-117.64	-81.89	-45.98	94.47	263.51	87.11	59.28	38.55	364.07
1965	32.26	16.71	7.62	-95.13	-83.44	-46.69	-98.18	-71.93	332.21	174.81	117.98	29.05	315.27
1966	64.56	-154.79	-30.88	-47.93	-125.14	-180.99	-83.28	-27.13	-13.99	167.01	-6.92	-41.55	-481.03
1967	-70.74	-45.49	17.92	-64.43	-57.14	-17.09	-211.58	-197.93	2.71	434.11	124.78	30.85	-54.03
1968	22.26	41.31	135.82	61.07	-26.24	6.31	-28.68	25.77	219.61	46.11	-25.22	43.05	521.17
1969	15.76	41.11	39.02	-38.43	-49.54	2.81	-53.28	-67.03	-15.99	162.31	113.58	73.85	224.17
1970	60.56	40.31	102.22	8.57	-24.04	-106.09	-175.68	-87.53	41.21	216.01	25.78	-25.55	75.77
1971	-5.24	22.41	83.02	-50.83	-87.74	-4.29	12.32	118.37	98.61	-70.59	12.18	-53.25	74.97
1972	88.74	72.86	33.01	-101.44	-116.21	-62.58	166.46	86.83	95.45	35.56	18.11	-4.09	312.70
1973	42.22	92.61	10.70	-30.35	-55.75	-49.77	1.23	146.41	169.97	-19.08	-13.15	59.96	355.00
1974	47.24	79.73	-50.07	-87.16	-38.75	33.95	74.93	13.76	75.43	-16.49	12.64	2.32	147.51
1975	46.12	34.78	50.83	-19.47	-46.11	-47.93	-44.94	63.01	105.23	-267.45	239.86	116.77	230.69

UNITS - 1000AF



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1929	549.64	574.75	456.08	414.53	357.04	1330.19	914.68	1281.43	2046.49	1012.19	363.22	334.25	9699.03
1930	497.34	441.35	419.88	373.53	743.24	826.09	645.78	775.03	804.09	497.89	645.02	477.35	7186.63
1931	686.74	579.59	466.08	396.63	414.64	427.39	414.38	618.23	1137.09	118.29	236.12	171.15	5666.33
1932	383.84	325.79	239.68	272.93	205.44	513.49	584.98	0.00	0.00	0.00	314.22	324.65	3229.03
1933	472.44	430.39	308.18	314.43	209.44	681.59	515.08	63.93	0.00	561.89	264.92	433.55	4535.85
1934	373.74	453.39	309.88	372.73	355.94	375.39	378.69	600.03	357.79	60.59	118.92	150.15	3907.23
1935	337.54	319.05	257.33	257.13	327.04	381.59	345.16	502.23	1490.59	1191.89	314.22	211.85	5935.73
1936	301.94	321.05	272.08	329.23	304.44	751.19	481.38	979.03	1240.99	353.59	242.52	225.35	5802.83
1937	329.04	353.19	253.38	284.13	321.54	517.09	410.18	577.53	1720.79	1048.89	220.22	198.05	6234.03
1938	397.44	326.15	244.34	404.53	326.54	653.19	379.78	765.73	2317.39	1591.89	441.22	327.15	8175.43
1939	386.74	410.05	254.94	434.83	327.34	786.69	413.38	847.63	1234.29	398.69	209.32	168.65	5912.63
1940	344.54	322.15	258.78	232.23	308.54	385.33	401.78	710.63	1396.79	271.69	140.72	143.25	4919.53
1941	519.94	297.89	285.68	314.93	347.84	425.99	392.29	736.53	1225.69	404.09	436.82	863.85	6251.73
1942	818.04	579.15	511.08	448.53	480.84	873.29	640.79	1104.93	2028.19	1051.09	378.12	294.05	9208.13
1943	449.54	462.25	294.08	435.83	899.94	1254.19	1097.59	1073.93	2761.89	2567.09	707.82	446.65	12454.83
1944	414.94	447.69	350.58	437.33	421.14	1056.29	890.28	1056.33	3354.69	1695.19	435.12	353.65	10953.23
1945	439.54	427.69	279.48	418.93	400.14	753.99	434.94	624.03	1856.49	1848.89	571.62	435.25	8491.03
1946	546.04	478.05	322.08	529.53	444.24	709.19	495.49	766.63	1588.09	844.59	280.22	460.45	7464.63
1947	596.14	503.95	404.28	397.23	451.64	1207.19	830.78	1472.43	1858.19	1667.19	513.72	394.85	10297.63
1948	550.84	513.29	433.08	484.63	478.04	808.49	681.68	1055.63	2850.29	1262.69	422.82	209.15	9750.63
1949	404.74	433.79	214.28	322.33	354.64	717.19	651.18	976.03	1678.09	683.99	237.32	275.05	6948.63
1950	408.24	412.45	249.68	307.33	405.14	714.09	902.78	689.33	1865.39	1645.29	614.22	440.35	8654.33
1951	569.84	461.89	453.38	473.73	470.74	656.59	736.68	872.03	1529.79	1548.99	789.72	576.85	9140.23
1952	552.54	541.15	316.68	477.53	504.64	765.09	1482.19	1492.23	2022.19	824.29	419.72	291.35	9749.63
1953	357.44	355.09	289.98	413.73	392.14	460.29	316.29	501.23	1961.29	805.39	371.92	217.55	6442.33
1954	329.34	375.39	306.98	287.13	508.94	423.79	472.38	900.53	1015.09	1044.69	416.12	267.55	6347.93
1955	352.74	373.15	312.98	279.23	325.14	345.49	666.39	705.23	1368.89	735.89	253.12	163.85	5882.13
1956	347.14	314.79	306.28	411.63	369.14	778.79	686.58	1229.33	2413.09	802.79	374.12	302.45	8336.13
1957	348.14	438.65	334.88	368.33	356.04	588.99	624.78	1136.53	2854.49	1634.99	397.12	427.55	9520.73
1958	447.54	463.39	389.58	435.33	377.54	584.39	425.48	923.93	1502.39	633.09	243.52	219.35	6645.53
1959	354.24	368.79	300.58	361.83	364.24	1237.39	436.58	576.23	1814.79	954.99	274.12	268.95	7312.73
1960	446.34	374.05	378.38	335.03	425.24	878.39	429.49	422.83	1104.59	186.19	194.42	168.35	5343.33
1961	324.74	363.29	251.18	319.43	299.34	363.69	227.18	284.93	1214.39	139.79	113.25	380.45	4281.66
1962	545.14	451.59	256.48	326.83	537.84	581.39	652.79	1171.63	2461.19	1600.49	526.62	433.55	9545.53
1963	500.44	435.55	346.08	420.53	697.14	669.19	522.58	1252.43	2753.19	986.49	270.02	388.35	9282.03
1964	365.74	399.49	280.48	448.13	469.74	459.79	591.38	1055.53	2499.49	1948.89	488.92	426.25	9433.83
1965	386.64	403.15	310.38	535.23	524.44	619.69	1308.19	1211.93	2779.79	2751.19	788.32	625.95	12245.43
1966	671.54	539.29	442.88	403.73	458.14	774.49	428.68	702.73	1058.99	365.69	244.72	260.05	6350.93
1967	429.74	386.09	342.28	393.53	408.84	512.19	650.48	1104.53	3361.29	2622.89	537.22	461.55	11210.63
1968	561.04	497.79	341.98	533.73	613.94	880.39	572.09	711.83	2716.39	1435.89	798.02	709.25	10374.33
1969	635.54	566.79	421.58	495.63	499.04	1101.19	846.28	1237.03	1625.99	1399.69	329.02	269.45	9427.23
1970	446.24	434.15	365.68	440.53	504.94	670.59	604.18	1501.53	2815.79	1437.99	420.72	464.45	10166.83
1971	531.84	472.69	399.58	574.63	1073.54	1172.29	872.69	1213.63	2905.39	1877.59	594.82	652.05	12340.73
1972	858.66	566.54	388.30	506.24	716.01	1660.58	624.34	1096.17	2480.55	1155.44	664.79	591.89	11309.50
1973	676.58	588.19	409.20	548.05	547.85	685.37	645.27	1309.09	1771.03	874.08	414.75	668.04	9137.50
1974	622.46	540.27	495.37	498.96	485.06	523.05	633.97	938.54	2882.57	1987.49	647.77	518.48	10773.99
1975	536.18	561.92	431.57	479.87	378.31	798.93	807.64	1725.99	2572.77	3258.45	759.04	461.63	12772.31
AVG	476.74	440.15	342.38	403.32	456.67	734.99	620.59	905.42	1878.74	1144.49	414.56	374.55	8192.60

0.115 - 1000AF



NORTH DAKOTA



*Little Missouri River*  
*near Watford City*  
*6-3370*



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	5.20	3.00	.70	.10	.10	433.60	257.90	224.60	362.70	20.90	8.70	5.40	1322.90
1930	15.30	3.30	1.40	.70	75.50	96.30	14.20	10.50	101.40	14.70	13.30	38.90	385.50
1931	2.90	1.60	1.50	1.40	12.40	11.70	12.70	.20	20.30	23.80	39.20	17.10	144.80
1932	7.60	4.20	1.60	.70	8.00	75.70	144.50	55.80	108.30	51.80	10.30	5.60	474.10
1933	9.80	9.80	1.00	.20	4.20	193.60	60.20	201.20	26.40	13.20	.50	0.00	520.10
1934	.10	.60	.10	.20	4.60	5.80	9.30	.50	26.10	10.00	0.00	0.00	57.30
1935	.09	.09	.06	0.00	0.00	8.94	6.04	12.07	45.30	111.30	7.51	1.46	192.86
1936	.40	.13	.16	.01	0.00	145.20	60.15	6.08	1.10	3.69	1.56	.08	218.56
1937	.08	.11	.00	0.00	0.00	41.02	51.81	8.11	148.50	72.24	86.41	13.43	421.70
1938	5.38	.48	.15	0.00	1.89	181.70	18.41	19.07	68.25	77.64	11.06	14.97	399.00
1939	3.71	.73	.57	.25	0.00	197.80	25.45	6.53	46.86	51.44	8.13	1.73	343.21
1940	.45	.32	.34	.04	0.00	26.87	48.52	26.42	27.21	23.10	34.61	19.87	207.75
1941	14.67	1.54	.04	.02	.58	33.76	41.81	13.85	189.60	19.77	24.56	69.83	410.02
1942	27.80	3.92	1.55	.02	0.00	117.70	55.01	72.80	101.00	11.37	8.75	9.38	409.30
1943	2.23	2.22	.47	.43	167.90	202.30	72.61	12.86	68.23	53.39	25.93	8.17	616.75
1944	1.57	3.30	.23	.04	.03	4.69	496.90	45.72	336.00	56.53	15.74	7.51	988.26
1945	4.30	8.77	.32	0.00	9.14	308.10	37.20	10.43	34.28	8.58	6.09	6.55	433.76
1946	5.55	.81	.12	.15	15.64	30.53	16.88	16.88	98.16	31.25	4.17	9.08	229.23
1947	50.44	24.36	8.47	4.18	77.65	369.90	233.00	18.30	158.90	76.61	38.91	3.23	1063.95
1948	2.53	1.52	.87	.13	14.81	191.00	68.19	27.68	60.90	66.58	23.80	2.17	460.18
1949	1.22	3.83	.73	.13	.06	352.50	223.10	18.36	7.57	5.10	2.85	1.05	616.49
1950	5.48	2.38	.54	0.00	0.00	78.14	455.40	128.20	22.14	9.37	16.57	9.00	727.22
1951	4.66	1.32	.02	0.00	15.73	119.00	35.67	8.40	9.79	12.16	11.83	30.94	249.52
1952	7.88	2.33	.88	.25	.31	51.75	724.00	21.05	10.95	20.17	6.70	2.86	849.13
1953	1.12	1.04	.34	.01	.26	32.77	12.79	63.77	114.10	13.78	18.73	12.95	271.66
1954	6.02	2.85	.92	.04	28.44	9.78	88.18	5.24	42.93	9.86	33.87	31.65	259.78
1955	1.73	1.19	.54	.05	0.00	48.80	87.15	46.04	72.44	26.74	4.94	.49	290.10
1956	.26	.18	.03	.00	0.00	36.42	15.60	5.12	7.60	32.38	29.10	4.82	131.51
1957	.80	.61	.38	.09	6.66	32.93	22.45	5.30	68.75	26.93	8.89	21.43	195.22
1958	3.80	2.82	1.61	.14	.35	40.08	14.93	6.30	44.50	52.78	1.68	.32	169.32
1959	.44	.37	.04	.00	0.00	243.90	38.50	6.39	10.01	8.07	.88	10.73	319.33
1960	4.79	1.21	.97	.25	.28	222.50	26.64	5.98	57.27	7.52	7.96	2.08	337.45
1961	.25	.30	.03	0.00	.01	14.71	5.37	8.24	3.55	6.41	8.64	11.45	58.97
1962	2.71	.79	.08	.00	.67	48.84	15.57	106.40	158.60	74.66	18.01	3.57	429.90
1963	7.13	2.41	.72	.06	25.77	118.70	63.58	36.48	112.50	21.76	11.95	14.94	416.00
1964	2.45	1.21	.28	.00	0.00	1.36	12.16	14.89	79.36	90.39	18.57	12.52	233.19
1965	1.92	.96	.17	.12	.28	4.72	235.70	98.41	88.41	78.06	10.05	13.89	532.70
1966	2.97	1.89	.96	.15	.00	124.90	12.85	7.32	12.02	38.13	9.87	1.10	212.16
1967	1.29	.47	.08	0.00	3.72	158.80	62.41	211.20	143.40	19.40	2.68	13.71	617.15
1968	6.99	2.24	.42	.10	9.15	89.74	8.30	4.17	19.43	10.89	22.42	7.59	181.44
1969	1.98	1.73	.53	.02	0.00	228.30	179.70	85.81	40.63	74.00	14.83	1.23	628.76
1970	1.19	1.23	.44	.13	.18	9.71	77.80	114.90	83.82	15.14	12.18	4.44	321.17
1971	2.05	3.24	.97	.08	33.03	429.60	283.30	44.60	307.00	43.24	4.30	33.86	1185.27
1972	145.40	23.21	3.96	3.54	2.69	628.40	54.89	141.00	72.33	31.90	36.11	6.91	1150.39
1973	5.78	3.89	.89	7.37	37.78	112.60	30.99	23.70	64.35	17.08	3.68	21.48	329.59
1974	7.07	4.07	1.88	5.39	7.29	25.49	40.49	67.89	45.56	10.36	7.31	1.11	223.91
1975	.86	3.04	.36	.06	.14	31.25	232.00	264.50	62.71	42.78	5.83	2.41	645.93
AVG	8.26	3.01	.82	.57	12.03	127.06	101.92	49.77	80.66	33.98	14.89	10.91	443.88



# LITTLE MISSOURI RIVER NEAR WATFORD CITY

SUMMATION OF MONTHLY DEPLETIONS STA 6-3370

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	.32	-.07	-.13	-.21	-.06	5.70	6.13	5.41	7.88	5.56	3.23	1.63	35.39
1930	.32	-.07	-.13	-.21	-.06	5.80	6.33	5.41	7.98	5.56	3.23	1.63	35.79
1931	.32	-.07	-.13	-.21	-.06	5.90	6.33	1.31	7.98	5.56	3.23	1.63	31.80
1932	.32	-.07	-.13	-.21	-.06	5.80	6.33	5.41	7.98	5.56	3.23	1.63	35.79
1933	.32	-.07	-.13	-.21	-.06	5.80	6.33	5.41	7.98	5.56	1.83	.83	33.59
1934	.22	-.07	-.13	-.21	-.06	5.80	6.33	1.61	7.98	5.56	1.33	.83	29.20
1935	.22	-.07	-.13	-.21	-.06	5.80	6.13	5.41	7.88	5.56	3.23	1.63	35.39
1936	.32	-.07	-.13	-.21	-.06	5.70	6.13	5.41	2.28	5.16	2.83	.93	28.30
1937	.22	-.07	-.13	-.21	-.06	5.70	6.13	5.41	7.88	5.46	3.13	1.63	35.09
1938	.32	-.07	-.13	-.21	-.06	5.70	6.03	5.41	7.98	5.46	3.13	1.53	35.19
1939	.32	.03	-.13	-.31	-.06	5.60	5.93	5.41	7.78	5.46	3.23	1.63	34.89
1940	.22	.03	-.03	-.21	-.06	5.40	5.83	5.41	7.88	5.46	3.23	1.53	34.69
1941	.22	.03	-.03	-.21	-.06	5.30	5.83	5.41	7.78	5.36	3.23	1.63	34.49
1942	.22	.03	-.13	-.21	-.06	5.20	5.73	5.31	7.68	5.36	3.33	1.63	34.09
1943	.22	.03	-.13	-.21	-.06	5.10	5.53	5.31	7.58	5.36	3.33	1.63	33.69
1944	.12	.03	-.03	-.31	-.06	4.80	5.33	5.31	7.48	5.26	3.23	1.63	32.79
1945	.12	.03	-.03	-.21	-.06	4.80	5.23	5.31	7.38	5.26	3.23	1.53	32.59
1946	.12	.03	-.03	-.21	-.06	4.70	5.13	5.21	7.28	5.26	3.23	1.53	32.19
1947	.12	-.07	-.13	-.21	-.16	4.40	4.83	5.11	7.18	5.16	3.23	1.63	31.09
1948	.12	.03	-.13	-.11	-.06	4.30	4.83	5.11	7.08	5.16	3.23	1.53	31.09
1949	.12	.03	-.03	-.11	-.16	4.20	4.33	4.91	6.78	5.06	3.23	1.33	29.69
1950	.12	-.07	-.03	-.11	-.16	4.00	4.13	4.81	6.58	4.76	3.03	1.43	28.49
1951	.12	-.07	-.03	-.11	-.16	3.90	4.03	4.81	6.48	4.76	3.13	1.43	28.29
1952	.12	-.07	-.03	-.11	-.16	3.80	3.93	4.51	6.28	4.56	2.93	1.33	27.09
1953	.12	-.07	.07	-.01	-.16	3.50	3.73	4.31	5.08	4.46	2.73	1.33	25.10
1954	.12	-.17	.07	-.01	-.16	3.40	3.63	4.31	5.68	4.26	2.63	1.33	25.10
1955	.02	-.17	.07	-.11	-.06	3.20	3.53	4.11	5.58	4.26	2.73	1.23	24.40
1956	-.08	-.17	.07	-.01	-.06	3.10	3.33	4.01	5.38	4.06	2.73	1.33	23.70
1957	-.08	-.17	-.03	-.01	-.06	2.90	2.93	3.91	5.08	3.96	2.73	1.33	22.50
1958	-.08	-.17	-.03	.04	-.06	2.70	2.43	3.71	4.78	3.76	2.53	1.03	20.70
1959	-.08	-.27	-.13	.04	-.06	2.50	2.73	3.31	4.18	3.36	2.33	1.23	19.20
1960	-.08	-.27	-.13	.04	-.06	2.40	2.63	3.31	4.08	3.36	2.43	1.13	18.90
1961	-.08	-.27	-.03	-.01	-.06	2.20	1.93	2.91	3.58	2.96	2.13	.93	16.20
1962	.02	-.27	-.13	-.01	-.06	2.10	1.73	2.81	3.48	2.86	2.13	.83	15.50
1963	.02	-.27	-.13	-.01	-.06	1.90	1.43	2.61	3.08	2.56	2.03	.83	14.00
1964	-.08	-.27	-.13	-.01	-.06	1.90	1.23	2.41	2.98	2.36	1.83	.83	13.00
1965	-.08	-.27	-.13	-.01	-.06	1.60	1.03	2.31	2.68	2.26	1.83	.83	12.00
1966	-.18	-.27	-.13	-.11	-.06	1.60	.93	2.21	2.28	2.26	1.73	.73	11.00
1967	-.18	-.27	-.13	-.11	-.06	1.30	.83	2.01	2.18	2.06	1.53	.73	9.89
1968	-.18	-.17	-.13	-.11	-.16	1.20	.63	2.11	1.98	1.76	1.43	.73	9.09
1969	-.18	-.27	-.13	-.11	-.06	1.00	.43	1.71	1.68	1.66	1.43	.73	7.90
1970	-.18	-.17	-.23	-.11	-.06	.90	.23	1.51	1.38	1.56	1.43	.73	7.00
1971	-.18	-.17	-.13	-.11	-.06	.90	.23	1.51	1.38	1.66	1.43	.73	7.20
1972	-.15	-.15	-.11	-.09	-.05	.70	.11	1.28	1.15	1.41	1.22	.62	5.95
1973	-.08	-.09	-.07	-.06	-.03	.57	.14	.94	.81	.93	.80	.41	4.26
1974	-.01	-.02	-.01	-.01	-.01	-.01	.17	.47	.33	.16	.13	.07	1.25
1975	-.00	-.00	-.00	-.00	-.00	-.00	.16	.28	.13	.04	.02	.01	.62



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
							UNITS - 1000AF							
1929	4.88	3.07	.23	.31	.16	427.90	251.77	219.19	354.82	15.34	5.47	3.77	1287.51	
1930	14.98	3.37	1.53	.91	75.56	90.50	7.87	5.09	93.42	9.14	10.07	37.27	349.71	
1931	2.58	1.67	1.63	1.61	12.46	5.80	6.37	0.00	12.32	18.24	35.97	15.47	114.12	
1932	7.28	4.27	1.73	.91	8.06	69.90	138.17	50.39	100.32	46.24	7.07	3.97	438.31	
1933	9.48	9.87	1.13	.41	4.26	187.80	53.87	195.79	18.42	7.64	0.00	0.00	488.67	
1934	0.00	.67	.23	.41	4.66	0.00	2.97	0.00	18.12	4.44	0.00	0.00	31.50	
1935	0.00	.16	.19	.21	.06	3.14	0.00	6.66	37.42	105.74	4.28	0.00	157.86	
1936	.08	.20	.29	.22	.06	139.50	54.02	.67	0.00	0.00	0.00	0.00	195.03	
1937	0.00	.18	.13	.21	.06	35.32	45.68	2.70	140.62	66.78	83.28	11.80	386.75	
1938	5.06	.55	.18	.21	1.95	176.00	12.38	13.66	60.27	72.18	7.93	13.44	363.87	
1939	3.39	.71	.70	.56	.06	192.20	19.52	1.12	39.08	45.98	4.90	.10	308.31	
1940	.22	.29	.37	.23	.06	21.47	42.69	21.01	19.33	17.64	31.38	18.34	173.05	
1941	14.45	1.51	.07	.25	.64	28.46	35.98	8.44	181.82	14.41	21.33	68.20	375.52	
1942	27.58	3.89	1.68	.23	.06	112.50	49.28	67.49	93.32	6.01	5.42	7.75	375.21	
1943	2.01	2.19	.60	.64	167.96	197.20	67.08	7.55	60.65	48.03	22.60	6.54	583.05	
1944	1.45	3.27	.26	.35	.09	0.00	491.57	40.41	328.52	51.27	12.51	5.88	935.57	
1945	4.18	8.74	.35	.21	9.20	303.30	31.97	5.12	26.90	3.32	2.86	5.02	401.16	
1946	5.43	.78	.15	.36	15.70	25.83	11.75	11.67	90.88	25.99	.94	7.55	197.03	
1947	50.32	24.43	8.60	4.34	77.81	365.50	228.17	13.19	151.72	71.45	35.68	1.60	1032.86	
1948	2.41	1.45	1.00	.24	14.87	186.70	63.36	22.57	53.82	61.42	20.57	.64	429.09	
1949	1.10	3.80	.76	.24	.22	348.30	218.77	13.45	.79	.04	0.00	0.00	587.45	
1950	5.36	2.45	.57	.11	.16	74.14	451.27	123.39	15.56	4.61	13.54	7.57	698.73	
1951	4.54	1.39	.05	.11	15.89	115.10	31.64	3.59	3.31	7.40	8.70	29.51	221.23	
1952	7.76	2.40	.91	.36	.47	47.95	720.07	16.54	4.67	15.61	3.77	1.53	822.03	
1953	1.00	1.11	.26	.02	.42	29.27	9.06	59.46	109.02	9.32	16.00	11.62	246.56	
1954	5.90	3.02	.85	.05	28.60	6.38	84.55	.93	37.25	5.60	31.24	30.32	234.69	
1955	1.71	1.36	.47	.16	.06	45.60	83.62	41.93	66.86	22.48	2.21	0.00	266.45	
1956	.33	.35	0.00	.01	.06	33.32	12.27	1.11	2.22	28.32	26.37	3.49	107.86	
1957	.88	.78	.41	.10	6.72	30.03	19.52	1.39	63.67	22.97	6.16	20.10	172.72	
1958	3.88	2.99	1.64	.05	.42	37.38	12.50	2.59	39.72	49.02	0.00	0.00	150.18	
1959	.51	.64	.17	0.00	.06	241.40	35.77	3.08	5.83	4.71	0.00	9.50	301.67	
1960	4.87	1.48	1.10	.16	.34	220.10	24.01	2.67	53.19	4.16	5.53	.95	318.56	
1961	.33	.58	.06	.01	.07	12.51	3.44	5.33	0.00	3.45	6.51	10.52	42.80	
1962	2.69	1.06	.21	.01	.73	46.74	13.84	103.59	155.12	71.80	15.88	2.74	414.40	
1963	7.11	2.68	.85	.07	25.83	116.80	62.15	33.87	109.42	19.20	9.92	14.11	402.00	
1964	2.53	1.48	.41	.01	.06	0.00	10.93	12.48	76.38	88.03	16.74	11.69	220.74	
1965	2.00	1.23	.30	.13	.34	3.12	234.67	96.10	85.73	75.80	8.22	13.06	520.70	
1966	3.15	2.16	1.09	.26	.07	123.30	11.92	5.11	9.74	35.87	8.14	.37	201.17	
1967	1.47	.74	.20	.11	3.78	157.50	61.58	209.19	141.22	17.34	1.15	12.98	607.26	
1968	7.17	2.41	.55	.21	9.31	88.54	7.67	2.06	17.45	9.13	20.99	6.86	172.35	
1969	2.16	2.00	.65	.13	.06	227.30	179.27	84.10	38.95	72.34	13.40	.50	620.86	
1970	1.37	1.40	.67	.24	.25	8.81	77.57	113.39	82.44	13.58	10.75	3.71	314.17	
1971	2.23	3.41	1.10	.19	33.09	428.70	283.07	43.09	305.62	41.58	2.87	33.13	1178.07	
1972	145.55	23.36	4.07	3.68	2.74	627.70	54.78	139.72	71.18	30.49	34.89	6.29	1144.44	
1973	5.86	3.98	.96	7.43	37.81	112.03	30.85	22.76	63.54	16.15	2.88	21.07	325.33	
1974	7.08	4.09	1.89	5.40	7.30	25.50	40.32	67.42	45.23	10.20	7.18	1.05	222.66	
1975	.86	3.04	.36	.06	.14	31.25	231.85	264.22	62.58	42.75	5.81	2.40	645.31	
VG	8.19	3.12	.90	.68	12.10	123.57	98.33	46.07	75.50	30.07	12.58	9.84	420.95	



Knife River  
at Hazen  
6-3405



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1930	.62	.65	.43	.31	51.50	62.10	12.10	4.86	14.80	1.13	.92	.96	150.37
1931	.86	.89	.62	.62	.56	3.07	2.38	1.05	3.47	2.45	2.75	7.94	26.65
1932	1.51	.46	.43	.31	1.45	17.90	8.27	3.89	14.50	1.14	.50	.76	51.12
1933	1.06	1.99	.70	.42	4.30	73.20	10.40	7.01	1.93	.66	.12	.03	101.82
1934	0.00	.10	0.00	0.00	.40	.50	.80	.10	2.20	.80	0.00	0.00	4.90
1935	.10	0.00	0.00	0.00	0.00	3.10	1.60	3.60	11.20	26.90	2.10	.30	48.90
1936	.10	0.00	0.00	0.00	.10	32.80	12.20	1.40	.20	.70	.30	.10	47.90
1937	0.00	.10	0.00	0.00	0.00	18.80	22.00	3.00	90.70	27.30	27.70	.80	190.40
1938	.98	1.32	.50	.47	.17	29.65	4.21	5.33	11.03	60.18	11.52	1.92	127.28
1939	1.82	1.41	1.03	.82	.65	90.61	8.47	4.10	4.39	5.41	2.03	1.30	122.04
1940	1.10	1.21	1.43	.55	.48	1.52	4.66	5.35	.87	7.51	1.34	.45	26.46
1941	1.36	.71	.67	.45	.33	14.71	6.80	5.60	51.64	1.75	1.36	3.41	88.80
1942	2.99	1.22	.92	.67	.66	26.30	24.16	5.86	29.61	4.33	2.68	1.49	100.89
1943	1.40	1.19	.43	.42	18.67	198.50	47.53	5.82	27.05	10.64	5.09	2.82	319.56
1944	2.29	3.26	2.30	1.04	1.10	12.97	77.79	7.80	61.95	14.40	2.34	2.20	189.44
1945	2.16	3.64	1.12	1.08	5.52	129.90	10.72	4.46	18.33	3.46	2.21	1.61	184.21
1946	1.71	1.71	.77	.90	6.24	38.38	3.36	1.82	7.58	9.39	.96	1.22	74.04
1947	2.33	1.58	1.06	6.19	16.40	42.59	46.70	3.48	51.00	9.25	4.97	1.99	187.54
1948	2.06	1.90	1.59	1.13	1.11	86.96	47.59	11.96	17.81	4.58	2.26	1.22	180.17
1949	1.48	1.96	1.18	.69	.45	9.13	127.60	6.79	5.48	3.34	2.95	1.63	162.68
1950	2.07	1.90	1.20	.57	.31	25.73	199.70	28.34	6.83	4.61	3.34	2.94	277.54
1951	2.79	2.10	1.84	1.84	1.23	43.59	105.10	8.64	7.86	4.68	7.21	4.77	191.65
1952	2.84	2.14	1.85	1.06	1.77	2.62	255.40	7.61	5.83	6.61	3.36	2.53	293.62
1953	1.96	2.16	1.89	1.45	1.62	11.59	4.65	11.65	39.81	4.53	2.28	1.24	84.83
1954	1.39	1.48	1.55	1.07	22.83	9.68	41.69	4.04	7.26	1.77	13.22	7.34	113.32
1955	1.82	1.85	1.79	1.19	1.36	19.07	14.48	2.70	3.11	2.96	1.15	.97	52.45
1956	.79	.92	.62	.36	.23	57.94	10.05	3.69	6.73	3.38	1.99	1.17	87.85
1957	1.04	1.26	.95	.73	2.89	26.09	5.80	3.03	13.36	6.18	.90	.83	63.06
1958	1.05	1.11	1.29	.98	.73	21.83	13.26	1.29	1.02	12.69	.53	.37	56.15
1959	.57	1.11	.46	.20	.03	69.05	10.79	2.07	2.05	1.55	.38	1.20	89.46
1960	1.79	.92	1.02	.48	.42	85.96	9.65	2.15	3.72	1.89	1.61	.79	110.40
1961	.58	.81	.58	.50	1.72	10.39	1.88	1.80	.52	.65	.88	.36	20.67
1962	.39	.46	.23	.04	0.00	10.45	3.98	19.23	37.63	20.11	3.66	1.37	97.56
1963	1.15	1.23	1.16	.34	.63	7.41	5.88	6.63	14.03	5.90	4.38	1.25	49.98
1964	.80	1.14	.65	.31	.46	.84	4.31	5.02	23.44	13.34	.88	3.41	54.59
1965	.92	1.09	.77	.49	.48	.71	60.76	29.80	18.08	13.84	2.95	2.31	132.21
1966	1.61	1.52	1.21	.43	.21	57.67	4.27	3.25	44.94	17.63	6.73	1.31	140.78
1967	1.29	.79	.89	.76	.63	123.00	38.50	44.25	12.39	3.21	1.91	1.88	229.50
1968	1.96	1.90	1.76	.38	.47	24.96	4.49	2.95	4.16	1.44	4.95	1.70	51.12
1969	1.25	1.85	1.24	.44	.58	18.14	140.90	5.52	4.39	32.04	6.07	1.96	214.38
1970	2.13	2.13	1.95	1.06	1.26	36.83	94.08	5.02	21.45	9.50	5.48	2.79	182.34
1971	3.09	2.99	1.96	1.13	8.09	82.72	33.15	6.88	42.48	5.03	1.28	3.01	191.81
1972	5.51	.93	.97	1.40	1.62	189.20	15.48	22.43	26.54	5.55	6.48	2.59	278.70
1973	3.94	3.71	1.78	3.86	9.26	53.58	6.38	4.21	3.85	1.37	1.07	1.11	94.22
1974	1.30	1.78	1.40	8.91	12.69	22.13	11.55	8.15	3.90	1.17	1.05	.74	74.77
1975	.91	1.38	1.33	.85	.53	2.82	112.00	47.51	16.15	6.61	2.83	1.63	194.55
AVG	1.54	1.43	1.03	1.02	3.96	40.73	35.44	10.22	17.33	8.34	3.49	1.82	126.36



## KNIFE RIVER AT HAZEN

## SUMMATION OF MONTHLY DEPLETIONS STA 6-3405

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1930	-.07	-.16	.26	.26	.28	1.82	1.48	.88	1.21	2.11	1.65	.31	10.04
1931	-.17	-.16	.26	.26	.28	1.52	1.18	.98	1.01	2.01	1.55	.41	9.13
1932	-.17	-.16	.26	.26	.38	1.82	1.48	.88	1.21	2.11	1.65	.31	10.04
1933	-.17	-.16	.26	.26	.28	1.82	1.48	.88	1.21	1.91	1.35	.41	9.53
1934	-.17	-.16	.26	.26	.28	1.22	.88	.18	.81	1.81	1.25	.41	7.04
1935	-.17	-.16	.26	.26	.28	1.82	1.48	.88	1.21	2.01	1.65	.41	9.93
1936	-.17	-.16	.26	.26	.28	1.52	1.18	.78	.21	1.91	1.55	.41	8.03
1937	-.17	-.16	.26	.26	.28	1.82	1.48	.98	1.21	2.01	1.65	.41	10.04
1938	-.17	-.16	.26	.26	.28	1.72	1.48	.88	1.11	2.01	1.65	.41	9.73
1939	-.17	-.16	.26	.26	.28	1.82	1.48	.88	1.11	2.01	1.65	.41	9.83
1940	-.17	-.16	.26	.26	.28	1.62	1.18	.78	.91	1.91	1.65	.41	8.93
1941	-.17	-.16	.16	.16	.38	1.82	1.48	.88	1.21	2.01	1.55	.51	9.83
1942	-.17	-.16	.16	.16	.38	1.82	1.38	.88	1.21	2.01	1.55	.51	9.73
1943	-.17	-.16	.16	.16	.28	1.82	1.58	.98	1.11	1.91	1.55	.51	9.73
1944	-.17	-.16	.16	.16	.28	1.72	1.38	.98	1.21	2.01	1.55	.51	9.63
1945	-.17	-.06	.16	.06	.28	1.72	1.38	.98	1.21	2.01	1.55	.51	9.63
1946	-.07	-.06	.06	.06	.28	1.72	1.28	1.08	1.11	1.91	1.55	.51	9.43
1947	-.07	-.06	.16	.06	.28	1.72	1.28	1.08	1.11	2.01	1.45	.51	9.53
1948	-.17	-.06	.06	.06	.28	1.72	1.28	.98	1.11	1.91	1.55	.51	9.23
1949	-.17	-.06	.06	.06	.28	1.72	1.28	.98	1.11	2.01	1.45	.51	9.23
1950	-.17	-.06	.06	.06	.28	1.72	1.28	.88	1.21	2.01	1.45	.51	9.23
1951	-.17	-.06	.06	.16	.28	1.72	1.18	.88	1.11	2.01	1.55	.41	9.13
1952	-.17	-.06	-.04	.06	.18	1.72	1.18	.88	1.11	1.91	1.35	.51	8.63
1953	-.27	-.16	-.04	.16	.18	1.62	1.08	.88	1.01	1.81	1.35	.51	8.13
1954	-.27	-.16	.06	.06	.18	1.52	.98	.78	1.01	1.71	1.35	.51	7.74
1955	-.27	-.06	-.04	.06	.08	1.52	.98	.78	1.01	1.71	1.25	.41	7.43
1956	-.27	-.06	-.04	.06	.18	1.62	.98	.78	1.01	1.61	1.15	.41	7.43
1957	-.17	-.16	-.14	.16	.18	1.52	1.08	.78	.81	1.61	1.15	.51	7.34
1958	-.27	-.16	-.14	.06	.18	1.52	.98	.68	.91	1.61	1.15	.41	6.94
1959	-.27	-.16	-.14	.06	.18	1.52	.98	.68	.91	1.61	1.05	.41	6.84
1960	-.27	-.16	-.04	.06	.18	1.32	1.08	.58	.81	1.61	1.05	.41	6.64
1961	-.27	-.16	-.04	.06	.18	1.22	.78	.58	.71	1.71	1.05	.41	6.24
1962	-.27	-.26	.06	.06	.18	1.22	.78	.58	.71	1.61	.95	.41	6.04
1963	-.27	-.16	-.04	.06	.18	1.32	.88	.48	.71	1.61	.95	.41	6.14
1964	-.27	-.26	-.04	.06	.08	1.32	.78	.08	.61	1.51	.95	.51	5.74
1965	-.27	-.16	-.04	.06	.08	1.22	.78	.48	.41	1.51	1.05	.51	5.64
1966	-.27	-.16	-.04	.06	.08	1.22	.78	.48	.41	1.41	.95	.51	5.44
1967	-.27	-.16	-.04	-.04	.08	1.22	.68	.38	.41	1.41	.95	.51	5.14
1968	-.17	-.16	-.04	-.04	-.02	1.22	.68	.38	.31	1.31	.95	.51	4.94
1969	-.27	-.06	.06	.06	-.02	1.22	.68	.38	.21	1.31	.85	.51	4.94
1970	.13	.24	.06	.16	.18	1.42	.78	.58	.51	1.61	1.15	.81	7.64
1971	-.17	-.06	-.04	-.04	-.02	1.12	.58	.38	.21	1.31	.85	.51	4.64
1972	-.17	-.06	-.04	-.04	-.02	.98	.52	.38	.21	1.31	.85	.51	4.43
1973	-.17	-.06	-.04	-.04	-.02	.83	.52	.38	.21	1.31	.85	.51	4.28
1974	-.13	-.04	-.03	-.03	-.02	.17	.52	.33	.15	.95	.62	.37	2.86
1975	-.03	-.01	-.01	-.01	-.00	-.00	.45	.22	.03	.21	.13	.08	1.06



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1930	.69	.81	.17	.05	51.22	60.28	10.62	3.98	13.59	0.00	0.00	.64	142.05
1931	1.04	1.05	.36	.36	.28	1.55	1.20	.07	2.46	.44	1.20	7.53	17.52
1932	1.68	.62	.17	.05	1.07	16.08	6.79	3.01	13.29	0.00	0.00	.45	43.20
1933	1.23	2.15	.44	.16	4.02	71.38	8.92	6.13	.72	0.00	0.00	0.00	95.15
1934	.17	.26	0.00	0.00	.12	0.00	0.00	0.00	1.39	0.00	0.00	0.00	1.94
1935	.27	.16	0.00	0.00	0.00	1.28	.12	2.72	9.99	24.89	.45	0.00	39.88
1936	.27	.16	0.00	0.00	0.00	31.28	11.02	.62	0.00	0.00	0.00	0.00	43.35
1937	.17	.26	0.00	0.00	0.00	16.98	20.52	2.02	89.49	25.29	26.05	.39	181.17
1938	1.16	1.48	.24	.21	0.00	27.93	2.73	4.45	9.92	58.17	9.87	1.51	117.66
1939	1.99	1.57	.77	.56	.37	88.79	6.99	3.22	3.28	3.40	.38	.89	112.20
1940	1.27	1.37	1.17	.29	.20	0.00	3.48	4.57	0.00	5.60	0.00	.04	17.99
1941	1.53	.87	.51	.29	0.00	12.89	5.32	4.72	50.43	0.00	0.00	2.90	79.47
1942	3.16	1.38	.76	.51	.28	24.48	22.78	4.98	28.40	2.32	1.13	.98	91.15
1943	1.57	1.35	.27	.26	18.39	196.68	45.95	4.84	25.94	8.73	3.54	2.31	309.82
1944	2.46	3.42	2.14	.86	.82	11.25	76.41	6.82	60.74	12.39	.79	1.69	179.81
1945	2.33	3.70	.96	1.02	5.24	128.18	9.34	3.48	17.12	1.45	.66	1.10	174.58
1946	1.78	1.77	.71	.84	5.96	36.66	2.08	.74	6.47	7.48	0.00	.71	65.20
1947	2.40	1.64	.90	6.13	16.12	40.87	45.42	2.40	49.89	7.24	3.52	1.48	178.01
1948	2.23	1.96	1.53	1.07	.83	85.24	46.31	10.98	16.70	2.67	.71	.71	170.94
1949	1.65	2.02	1.12	.63	.17	7.41	126.32	5.81	4.37	1.33	1.50	1.12	153.44
1950	2.24	1.96	1.14	.51	.03	24.01	198.42	27.46	5.62	2.60	1.89	2.43	268.31
1951	2.96	2.16	1.78	1.68	.95	41.87	103.92	7.76	6.75	2.67	5.66	4.36	182.52
1952	3.01	2.20	1.89	1.00	1.59	.90	254.22	6.73	4.72	4.70	2.01	2.02	284.99
1953	2.23	2.32	1.93	1.29	1.44	9.97	3.57	10.77	38.80	2.72	.93	.73	76.69
1954	1.66	1.64	1.49	1.01	22.65	8.16	40.71	3.26	6.25	.06	11.87	6.83	105.59
1955	2.09	1.91	1.83	1.13	1.28	17.55	13.50	1.92	2.10	1.25	0.00	.56	45.12
1956	1.06	.98	.66	.30	.05	56.32	9.07	2.91	5.72	1.77	.84	.76	80.42
1957	1.21	1.42	1.09	.57	2.71	24.57	4.72	2.25	12.55	4.57	0.00	.32	55.98
1958	1.32	1.27	1.43	.92	.55	20.31	12.28	.61	.11	11.08	0.00	0.00	49.88
1959	.85	1.27	.60	.14	0.00	67.53	9.81	1.39	1.14	0.00	0.00	.79	83.51
1960	2.06	1.08	1.06	.42	.24	84.64	8.57	1.57	2.91	.28	.56	.38	103.76
1961	.86	.97	.62	.44	1.54	9.17	1.10	1.22	0.00	0.00	0.00	0.00	15.91
1962	.67	.72	.17	0.00	0.00	9.23	3.20	18.65	36.92	18.50	2.71	.96	91.72
1963	1.42	1.39	1.20	.28	.45	6.09	5.00	6.15	13.32	4.29	3.43	.84	43.85
1964	1.07	1.40	.69	.25	.38	0.00	3.53	4.54	22.83	11.83	0.00	2.90	49.41
1965	1.19	1.25	.81	.43	.40	0.00	59.98	29.32	17.67	12.33	1.90	1.80	127.09
1966	1.88	1.68	1.25	.37	.13	56.45	3.49	2.77	44.53	16.22	5.78	.80	135.34
1967	1.56	.95	.93	.80	.55	121.78	37.82	43.87	11.98	1.80	.96	1.37	224.36
1968	2.13	2.06	1.80	.42	.49	23.74	3.81	2.57	3.85	.13	4.00	1.19	46.18
1969	1.52	1.91	1.18	.38	.60	16.92	140.22	5.14	4.18	30.73	5.22	1.45	209.44
1970	2.00	1.89	1.89	.90	1.08	2.26	36.05	93.50	20.94	7.89	4.33	1.98	174.71
1971	3.26	3.05	2.00	1.17	8.11	81.60	32.57	6.50	42.27	3.72	.43	2.50	187.18
1972	5.68	.99	1.01	1.44	1.64	188.22	14.96	22.05	26.33	4.24	5.63	2.08	274.27
1973	4.11	3.77	1.82	4.00	9.28	52.75	5.86	3.83	3.64	.06	.22	.60	89.94
1974	1.43	1.82	1.43	8.94	12.71	21.96	11.03	7.82	3.75	.22	.43	.38	71.91
1975	.93	1.39	1.34	.86	.54	2.82	111.55	47.29	16.12	6.41	2.70	1.55	193.49
AVG	1.73	1.55	.98	.93	3.79	39.30	34.37	9.51	16.50	6.77	2.42	1.39	119.26



Missouri River  
at Bismarck  
6-3425



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	904.00	922.00	590.00	657.00	476.00	1997.00	1985.00	2400.00	4724.00	2425.00	867.00	678.00	18625.00
1930	850.00	748.00	487.00	540.00	889.00	1756.00	2127.00	1948.00	2312.00	1423.00	1079.00	897.00	15056.00
1931	816.00	746.00	541.00	412.00	559.00	827.00	780.00	1004.00	2055.00	775.00	557.00	364.00	9436.00
1932	578.00	433.00	318.00	400.00	320.00	771.00	1660.00	2209.00	4116.00	2669.00	847.00	707.00	15028.00
1933	713.00	552.00	478.00	503.00	419.00	1743.00	1182.00	2411.00	4215.00	1542.00	558.00	952.00	15268.00
1934	574.00	717.00	367.00	546.00	853.00	1170.00	1146.00	1601.00	1693.00	676.00	384.00	271.00	9998.00
1935	462.00	515.00	337.00	309.00	457.00	638.00	1038.00	1033.00	3202.00	2411.00	737.00	469.00	11608.00
1936	488.00	380.00	512.00	349.00	361.00	1349.00	1400.00	1871.00	2409.00	1047.00	603.00	450.00	11219.00
1937	511.00	608.00	323.00	371.00	301.00	751.00	1138.00	1028.00	2869.00	2045.00	587.00	371.00	10903.00
1938	648.00	445.00	276.00	389.00	236.00	1922.00	668.00	950.00	3241.00	3567.00	1472.00	1218.00	15032.00
1939	927.00	910.00	652.00	664.00	395.00	2213.00	1907.00	1942.00	2807.00	1661.00	785.00	466.00	15329.00
1940	544.00	608.00	464.00	207.00	265.00	382.00	1052.00	1133.00	1810.00	1140.00	1213.00	643.00	9461.00
1941	797.00	382.00	452.00	324.00	324.00	462.00	1287.00	1232.00	2212.00	1241.00	1328.00	1323.00	11364.00
1942	1072.00	681.00	467.00	334.00	445.00	1011.00	1188.00	1489.00	3148.00	1789.00	1163.00	1159.00	13946.00
1943	1209.00	964.00	340.00	366.00	472.00	1680.00	3698.00	1362.00	3546.00	3306.00	1648.00	1658.00	20249.00
1944	1722.00	1465.00	1014.00	837.00	729.00	850.00	2429.00	1238.00	4317.00	2690.00	1563.00	1204.00	20058.00
1945	1398.00	1260.00	963.00	940.00	618.00	1799.00	754.00	872.00	2284.00	2416.00	1150.00	1458.00	15912.00
1946	1554.00	735.00	375.00	397.00	367.00	1318.00	732.00	1017.00	2206.00	1824.00	1229.00	1536.00	13290.00
1947	1493.00	665.00	490.00	561.00	627.00	1768.00	2341.00	2580.00	3449.00	2910.00	2232.00	1891.00	21007.00
1948	2087.00	1250.00	791.00	653.00	528.00	1272.00	2042.00	1937.00	3934.00	3179.00	2124.00	1819.00	21616.00
1949	2161.00	1386.00	492.00	765.00	688.00	1253.00	2732.00	1734.00	2321.00	1690.00	1582.00	1530.00	18334.00
1950	1590.00	907.00	462.00	526.00	472.00	679.00	2795.00	1560.00	2497.00	2330.00	1791.00	1752.00	17361.00
1951	1918.00	1205.00	835.00	865.00	734.00	852.00	2697.00	1940.00	2524.00	2095.00	2237.00	2220.00	20122.00
1952	2386.00	1914.00	772.00	940.00	969.00	705.00	5365.00	2330.00	2518.00	1490.00	1744.00	1662.00	22795.00
1953	1722.00	1128.00	629.00	684.00	623.00	780.00	1087.00	1466.00	3087.00	1863.00	1684.00	1770.00	16523.00
1954	2059.00	1321.00	592.00	529.00	621.00	1043.00	1348.00	1555.00	993.00	1897.00	2406.00	2300.00	16664.00
1955	1755.00	687.00	485.00	401.00	398.00	388.00	824.00	2411.00	1407.00	1768.00	1558.00	1801.00	13983.00
1956	174.00	999.00	559.00	482.00	338.00	622.00	1508.00	1755.00	1970.00	1839.00	1690.00	1204.00	14940.00
1957	972.00	839.00	708.00	671.00	782.00	764.00	1031.00	1250.00	921.00	1015.00	1337.00	1020.00	11310.00
1958	903.00	585.00	691.00	873.00	737.00	945.00	1136.00	1277.00	1747.00	906.00	1087.00	1768.00	12655.00
1959	1256.00	996.00	920.00	896.00	888.00	993.00	1000.00	1291.00	1270.00	1288.00	1333.00	1263.00	13394.00
1960	996.00	928.00	921.00	929.00	1056.00	1205.00	845.00	815.00	502.00	666.00	785.00	747.00	10395.00
1961	615.00	733.00	929.00	1268.00	1116.00	1284.00	1237.00	1189.00	854.00	846.00	1020.00	557.00	11648.00
1962	1009.00	1499.00	989.00	1335.00	1308.00	1481.00	1401.00	1372.00	1318.00	848.00	570.00	483.00	13613.00
1963	516.00	485.00	881.00	1247.00	1122.00	1380.00	1012.00	568.00	995.00	1054.00	604.00	576.00	10440.00
1964	713.00	1012.00	1512.00	1496.00	1611.00	1589.00	1223.00	1093.00	1273.00	897.00	836.00	1126.00	14381.00
1965	1055.00	1415.00	1339.00	1736.00	1746.00	1930.00	1731.00	1468.00	1644.00	1390.00	891.00	782.00	17127.00
1966	1811.00	2020.00	1922.00	1271.00	1544.00	1584.00	625.00	670.00	794.00	1150.00	1244.00	1038.00	15673.00
1967	1297.00	1523.00	1418.00	1661.00	1811.00	1950.00	1143.00	670.00	1615.00	2024.00	2423.00	1712.00	19247.00
1968	1992.00	1719.00	1682.00	1703.00	1916.00	1457.00	1403.00	1322.00	1105.00	1104.00	1376.00	1482.00	18261.00
1969	2157.00	1568.00	1739.00	1989.00	1935.00	2063.00	1925.00	1602.00	1186.00	1829.00	2048.00	1718.00	21759.00
1970	1651.00	1697.00	1949.00	1659.00	1657.00	1385.00	1667.00	1965.00	1848.00	1766.00	1840.00	1438.00	20522.00
1971	1766.00	1848.00	1679.00	1740.00	1658.00	2015.00	2274.00	2518.00	2223.00	2270.00	1778.00	1563.00	23332.00
1972	1626.00	1621.00	1485.00	1920.00	1754.00	2113.00	2402.00	2584.00	2428.00	1852.00	1613.00	1348.00	22746.00
1973	1412.00	1482.00	1305.00	1734.00	1512.00	1713.00	1348.00	1107.00	1172.00	1319.00	1347.00	1245.00	16696.00
1974	1250.00	1256.00	1474.00	1691.00	1596.00	1744.00	1300.00	1416.00	1528.00	1725.00	1831.00	1542.00	18353.00
1975	1813.00	1571.00	1594.00	1505.00	1676.00	1682.00	1348.00	2180.00	2591.00	3973.00	3505.00	2362.00	25800.00
AVG	1270.68	1049.57	855.32	899.47	891.68	1303.79	1594.91	1539.68	2231.49	1779.36	1367.79	1224.32	16008.06



# SUMMATION OF MONTHLY DEPLETIONS

## YELLOWSTONE RIVER & TRIBS - LITTLE MISSOURI, KNIFE, HEART

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	-66.78	-125.92	-123.25	-117.28	-115.53	-6.94	-13.71	114.97	742.94	405.61	71.87	45.07	811.05
1930	-19.98	-72.72	-63.75	-92.18	-116.73	-66.74	-6.61	147.27	775.24	414.91	183.87	68.97	1226.55
1931	-40.38	-96.92	-90.95	-114.28	-116.13	-99.34	-56.51	150.07	677.00	179.41	62.67	-8.23	446.45
1932	-44.48	-73.12	-59.55	-71.58	-53.93	-63.24	-50.81	254.47	875.74	393.81	89.67	106.17	1303.15
1933	-61.08	-99.72	-106.05	-93.08	-102.03	-85.34	-69.91	73.47	879.54	275.71	149.77	15.57	776.85
1934	-56.48	-110.62	-104.15	-97.78	-96.33	-19.54	51.89	178.97	377.04	168.41	35.37	-9.23	317.55
1935	-43.08	-70.82	-65.15	-87.38	-80.83	-50.64	-12.41	104.27	991.64	311.81	34.67	-13.13	1018.95
1936	-44.28	-53.52	-44.25	-129.38	-148.73	-51.94	21.39	221.27	657.64	273.51	118.57	-19.63	800.65
1937	-8.58	-26.52	-39.75	-155.58	-162.73	-86.24	17.49	233.27	697.44	339.71	14.17	4.17	826.85
1938	-21.68	-58.32	-55.45	-136.28	-137.13	-46.64	-1.51	205.77	631.84	365.71	44.37	51.17	841.85
1939	-10.82	-24.32	-41.85	-138.58	-160.63	17.06	8.19	219.77	377.74	311.51	78.97	23.87	682.55
1940	-15.18	-24.38	-10.35	-97.98	-87.83	-51.24	-16.61	110.97	203.14	259.51	24.37	20.47	363.65
1941	61.72	-6.22	40.65	-101.38	-107.63	-56.54	26.79	302.87	480.44	207.61	167.97	90.27	1106.55
1942	71.62	-2.42	-46.75	-169.38	-161.13	-41.94	69.19	293.37	512.84	256.41	19.67	28.37	829.85
1943	1.22	-6.72	-14.05	-165.18	-87.93	74.36	1.79	49.47	687.94	257.71	118.57	32.57	949.75
1944	-13.08	-4.82	-41.15	-172.18	-161.53	-106.84	-118.51	191.97	702.14	334.21	31.77	18.17	660.15
1945	-7.88	-14.22	-36.15	-91.28	-94.93	75.16	-48.71	146.77	561.14	290.51	83.87	74.07	938.35
1946	11.92	-44.12	-61.85	-135.38	-143.43	-50.24	58.99	148.37	486.34	268.71	10.27	73.07	622.65
1947	24.52	-23.42	-37.05	-166.28	-147.13	-24.34	-85.41	241.87	610.24	296.11	114.87	.87	804.85
1948	13.62	-14.62	-45.25	-184.78	-130.83	36.36	-28.01	82.37	625.04	254.51	42.97	44.37	695.75
1949	-1.38	-11.42	-19.25	-121.98	-122.83	16.76	29.69	175.87	449.44	234.31	5.67	37.97	672.85
1950	48.72	20.68	-3.55	-111.68	-99.23	-73.04	-23.81	98.47	464.44	239.61	65.37	58.17	684.15
1951	55.62	-3.02	-19.05	-152.98	-134.43	-96.94	21.89	222.77	502.94	117.91	170.47	14.17	699.35
1952	-15.68	-47.52	-72.95	-148.08	-161.93	-135.34	-63.31	99.27	59.34	156.31	79.77	38.67	-211.45
1953	25.02	-5.52	15.75	-61.48	-62.33	-47.14	33.09	73.57	239.44	157.61	53.77	26.17	447.95
1954	9.42	25.48	36.55	-91.48	-113.13	-98.04	22.19	180.67	184.64	206.31	59.77	36.17	458.55
1955	-16.92	13.88	40.75	-37.18	-68.53	11.16	96.69	154.17	238.74	142.91	42.57	17.97	670.05
1956	-12.18	-15.22	36.05	-25.38	-24.63	20.86	-90.31	29.47	137.34	128.11	57.77	70.87	312.75
1957	51.32	59.58	47.65	-103.78	-102.83	-72.64	-171.41	10.17	398.84	278.71	44.67	24.17	464.45
1958	74.42	59.18	21.65	-36.18	-43.33	-45.64	-10.01	133.47	166.24	157.01	169.67	127.97	774.45
1959	98.62	72.18	78.95	-45.88	-122.83	-71.24	8.29	66.57	230.24	142.11	20.17	12.07	489.25
1960	43.02	2.78	15.65	-86.98	-84.83	-22.54	-11.81	28.47	118.24	168.61	20.77	11.37	202.75
1961	-42.88	-78.62	-65.35	-53.98	-37.53	-39.14	-56.21	51.37	99.14	170.81	-11.33	71.07	7.35
1962	-5.18	14.58	25.05	-28.08	72.07	150.26	61.79	95.77	270.24	125.21	86.87	65.57	934.15
1963	55.52	18.78	3.65	-135.18	-96.33	-102.64	-127.01	-30.33	488.24	235.91	26.97	44.97	382.55
1964	45.72	38.98	35.75	-54.88	-117.53	-78.04	-43.81	97.37	268.34	93.11	62.17	40.07	387.25
1965	31.82	16.18	7.45	-94.98	-83.33	-43.24	-96.21	-69.13	337.74	179.11	120.97	30.57	336.95
1966	64.02	-155.22	-31.05	-47.88	-125.03	-177.54	-81.41	-24.43	-9.86	171.71	-4.13	-40.23	-461.05
1967	-71.28	-45.92	17.65	-64.48	-57.03	-13.94	-209.91	-195.53	6.44	438.31	127.37	32.27	-36.05
1968	21.92	40.98	135.55	61.02	-26.43	9.36	-27.11	28.37	222.64	49.61	-22.83	44.47	537.55
1969	15.32	40.78	38.95	-38.48	-49.63	5.56	-51.91	-64.83	-13.96	165.81	115.97	75.27	238.85
1970	60.52	40.38	102.05	-8.62	-23.93	-103.24	-174.41	-85.33	43.14	219.31	28.47	-23.83	91.75
1971	-5.58	22.18	82.85	-50.98	-87.83	-1.74	13.39	120.37	100.24	-67.49	14.57	-51.93	88.05
1972	88.42	72.65	32.85	-101.58	-116.28	-60.44	167.31	88.59	96.82	38.35	20.24	-2.92	324.02
1973	41.96	92.46	10.59	-30.45	-55.80	-48.07	2.10	147.81	170.99	-16.83	-11.48	60.89	364.17
1974	47.09	79.67	-50.11	-87.21	-38.78	34.28	75.83	14.64	75.91	-15.36	13.39	2.76	152.12
1975	46.09	34.77	50.82	-19.48	-46.12	-47.90	-44.23	63.59	105.39	-267.21	240.02	116.86	232.60



*Heart River*  
*near Mandan*  
*6-3490*



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	.86	1.38	.62	.31	.28	45.70	25.30	7.32	43.90	2.53	.62	.41	129.21
1930	.47	.83	.49	.18	58.12	93.74	27.00	7.75	25.80	3.81	.61	.67	219.48
1931	1.13	1.05	.76	1.21	6.61	5.89	4.68	1.26	2.40	3.31	1.88	1.51	31.69
1932	2.81	1.11	.98	.31	20.95	33.80	9.16	3.65	22.40	2.42	.22	.09	97.89
1933	1.40	.90	1.40	.30	.50	99.00	15.90	20.90	5.30	.60	0.00	.20	146.40
1934	0.00	0.00	0.00	0.00	0.00	11.70	10.80	.10	6.40	.30	0.00	0.00	29.30
1935	1.60	.10	0.00	0.00	0.00	8.70	2.70	2.60	12.40	13.10	.70	0.00	41.90
1936	0.00	0.00	0.00	0.00	0.00	20.90	6.60	1.20	.20	0.00	0.00	0.00	28.90
1937	0.00	0.00	0.00	0.00	0.00	15.10	21.60	.90	88.30	19.80	2.40	.80	148.90
1938	.47	.41	.01	0.00	.05	43.61	4.74	3.07	14.73	92.74	3.95	1.42	165.22
1939	.72	.55	.75	.33	.00	110.40	10.60	3.10	3.89	6.21	.84	.60	137.99
1940	.33	.55	.70	.06	0.00	1.45	13.61	28.57	1.42	4.23	2.41	.14	53.47
1941	.83	.44	.14	.03	0.00	27.60	10.73	10.17	114.50	5.37	2.55	2.99	175.35
1942	4.33	1.85	.83	.14	.13	16.13	35.86	22.41	32.59	7.83	2.59	1.95	126.64
1943	1.85	1.61	.18	.10	40.15	245.10	96.81	10.53	38.52	9.20	4.85	3.55	452.45
1944	2.09	3.68	1.33	.51	.48	10.90	109.10	16.54	86.64	29.76	3.26	3.52	267.81
1945	2.37	4.29	1.22	.86	9.31	199.10	27.47	7.29	14.39	4.68	3.48	1.48	275.94
1946	1.69	1.30	.66	.04	.24	33.22	4.79	2.21	4.75	6.42	.48	.73	56.54
1947	2.08	1.66	.71	.33	24.89	86.08	78.09	7.55	52.75	17.68	5.30	1.89	279.02
1948	1.89	1.74	1.18	.64	.10	178.50	51.91	11.34	14.32	14.21	5.77	1.08	282.68
1949	1.23	1.82	.79	.08	0.00	64.69	173.40	9.24	4.93	2.38	2.73	.97	262.25
1950	.92	.71	.19	0.00	0.00	.82	350.20	86.02	20.14	5.55	3.59	3.32	471.45
1951	3.45	2.05	1.25	1.23	.99	83.41	131.30	10.90	7.73	10.16	8.97	7.28	268.72
1952	5.40	4.28	1.41	.35	.34	1.28	348.00	14.72	10.74	10.40	7.11	8.76	412.79
1953	4.84	5.26	.72	.57	.71	6.45	5.28	9.87	48.45	10.75	5.43	5.53	103.86
1954	6.67	2.07	4.73	3.68	13.51	11.38	75.20	14.05	6.39	4.26	4.19	4.33	150.46
1955	2.89	2.44	1.62	.47	.50	13.64	8.39	3.22	8.11	6.26	3.83	1.74	53.11
1956	3.07	3.16	3.06	2.32	1.42	61.08	19.20	9.35	6.53	8.45	3.32	2.57	123.53
1957	3.74	5.38	1.68	.71	.17	5.53	5.42	4.00	11.94	22.00	1.72	2.21	64.50
1958	3.28	3.62	1.60	.81	.42	21.14	24.62	4.18	7.27	4.48	2.81	3.06	77.29
1959	3.18	2.11	.41	.14	.02	71.59	26.76	3.63	3.42	2.47	2.26	2.60	118.59
1960	3.51	1.56	1.43	1.01	.43	47.03	18.39	4.30	14.78	4.43	2.43	3.14	102.44
1961	3.06	2.05	1.48	1.19	.63	4.20	2.19	1.31	1.39	1.08	.97	2.26	21.80
1962	.90	.71	.22	.02	.00	10.59	3.90	9.48	15.04	6.72	1.88	2.53	51.99
1963	1.03	1.63	1.09	.17	.00	4.48	3.86	3.03	13.59	6.71	8.95	3.81	48.35
1964	3.17	2.39	1.08	.38	.52	1.22	4.57	3.61	26.07	40.58	4.27	3.14	91.00
1965	3.25	1.66	.45	.05	.03	.02	42.10	31.90	36.93	5.02	5.46	6.82	133.72
1966	4.83	1.92	2.13	.51	0.00	101.20	16.41	5.62	62.11	39.11	7.89	4.64	246.37
1967	3.53	2.41	1.53	1.33	1.13	121.10	48.57	108.70	12.11	5.63	6.12	5.19	317.35
1968	3.01	2.17	1.46	.14	.38	14.13	4.73	2.15	8.75	3.36	6.36	2.34	48.98
1969	1.40	.98	.66	.16	.09	4.26	257.20	11.73	8.86	74.79	6.73	6.45	373.31
1970	2.82	2.40	1.84	.96	.96	1.77	34.73	222.00	34.07	15.29	10.11	6.56	333.51
1971	3.42	2.11	1.37	.47	1.53	104.00	72.31	19.12	36.17	12.77	5.71	6.09	265.07
1972	3.65	1.71	1.90	1.44	.69	171.80	52.16	70.04	55.86	15.75	10.75	7.52	393.27
1973	2.50	2.97	2.24	3.21	15.77	87.65	11.10	8.68	6.12	4.80	5.15	3.56	153.75
1974	1.80	1.95	1.98	2.77	4.40	8.75	6.11	3.69	3.88	3.63	3.26	2.48	44.70
1975	1.97	1.85	1.53	.53	.19	1.49	133.50	123.90	27.11	12.08	7.91	3.63	315.69
AVG	2.33	1.85	1.10	.64	4.40	49.18	52.06	20.57	23.07	12.41	3.87	2.88	174.35



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	-2.39	-2.90	-2.30	.30	.30	15.73	6.37	.11	10.73	.13	-1.79	-2.62	25.65
1930	-2.89	-2.10	-1.00	.30	.40.30	25.73	.37	.01	10.13	-4.87	-2.99	-2.62	60.35
1931	.21	-1.10	-1.00	.30	.30	.63	-1.63	-2.99	-4.87	-.87	-.99	-1.12	-11.15
1932	.21	-1.10	-1.00	.30	15.20	20.63	.37	.11	10.13	-4.87	-1.99	-2.12	37.85
1933	-.79	-2.10	-1.00	.30	.20	50.63	.37	10.11	-4.87	-5.87	-2.49	-2.12	43.35
1934	-2.89	-1.90	-1.50	-.20	-.20	.63	.37	-2.89	-1.87	-4.87	-2.59	-2.52	-20.45
1935	.21	-1.10	-.50	.10	.10	.63	.37	.11	.13	5.13	-.99	-2.32	1.85
1936	-1.29	-.90	-.40	-.00	.10	10.63	.37	-.89	-1.87	-5.37	-2.39	-2.72	-4.75
1937	-.79	-.70	-.20	.20	.10	5.63	15.37	-.89	40.13	.13	.01	-1.62	57.35
1938	-.49	-1.40	-1.20	-.30	-.00	25.63	.37	.11	.13	40.13	.01	-1.12	61.85
1939	-2.29	-2.20	-.60	-.20	-.30	58.63	-9.63	-4.89	-9.87	.13	-1.39	-2.12	25.25
1940	-1.79	-1.70	-.60	-.30	-.20	-4.47	.37	20.11	-1.87	-.87	.11	-2.12	6.65
1941	-.79	-1.10	-1.10	-.20	-.00	.63	.37	.11	41.13	.03	.11	-1.12	38.95
1942	.21	-.20	-.10	.30	.20	.63	14.17	5.11	5.13	.13	-.29	-.62	24.65
1943	.11	-.10	-.10	.20	20.20	100.63	.27	-39.89	-19.87	-36.47	.01	-.02	24.95
1944	.11	-.10	-.10	.30	.10	.63	30.27	-26.99	20.13	.13	.01	-1.32	24.45
1945	.11	-.10	-.10	.40	.10	100.63	-49.73	-25.99	.03	.13	.01	-1.32	24.15
1946	.11	-.10	-.20	.20	.10	10.63	.27	.11	.03	.13	-1.99	-1.92	7.35
1947	.11	-.10	-.10	.40	10.10	46.73	25.27	-39.89	.13	.13	.01	-.92	41.85
1948	.11	-.00	-.10	.40	.10	75.63	-9.73	-40.09	.13	.13	.01	-1.92	24.65
1949	.11	-.00	-.10	.30	-.00	10.63	50.27	-19.99	-13.37	-1.87	.11	-1.92	24.15
1950	-1.89	-1.00	-.60	-.10	-.10	-4.37	-34.23	.11	.03	.13	.11	-.18	-41.75
1951	.11	-.10	-.10	.30	.20	.63	8.97	.11	.13	.13	.11	-.18	10.65
1952	.11	-.10	-.00	.20	.10	.63	13.77	.11	.13	.13	.11	-.18	15.35
1953	.11	-.10	-.00	.20	.10	.73	.27	.01	12.63	.03	.11	-.28	14.35
1954	.01	-.10	-.00	.20	.10	.63	12.57	.11	.03	.03	.11	-.28	13.95
1955	.01	-.00	-.00	.20	.10	8.33	3.27	.11	2.03	.03	.11	-.18	14.35
1956	.01	-.10	-.00	.20	.10	12.43	.27	.01	.03	.13	.11	-.18	13.35
1957	.11	-.10	-.10	.20	.10	.83	.27	.01	3.43	8.13	.11	-.18	13.15
1958	.01	-.10	-.10	.10	.10	5.53	6.27	.01	-.07	.13	.11	-.18	12.15
1959	.01	-.10	-.10	.20	.10	8.13	.17	.01	-.07	.13	.11	-.18	8.75
1960	.01	-.20	-.10	.20	.10	8.73	.17	.01	-.07	.23	.21	-.08	9.35
1961	.91	.30	.20	.60	.30	1.93	.37	.21	.23	.43	.21	.58	6.25
1962	.01	-.10	-.10	.20	.10	2.93	.17	.01	2.23	.23	.11	.18	5.95
1963	.01	-.10	-.10	.10	.10	.63	.17	.01	3.63	.23	.21	.18	5.05
1964	.01	-.10	-.10	.10	.10	.63	.17	.01	1.23	2.13	.11	.18	4.45
1965	-.09	-.10	-.00	.10	.10	.63	.17	.01	2.43	.53	.11	.18	4.05
1966	-.09	-.00	-.00	.10	.10	.63	.17	.01	1.43	1.03	.11	.08	3.55
1967	-.09	-.00	-.10	.10	.10	.63	.17	.01	1.13	.73	.11	.18	2.95
1968	.01	-.00	-.10	.10	-.00	.63	.27	.11	.73	.43	.01	.18	2.35
1969	.01	-.00	-.00	-.00	-.00	.53	.27	.11	.13	.53	.11	-.18	1.85
1970	.01	-.00	-.00	-.00	-.00	.53	.27	.11	.03	.13	.11	-.18	1.35
1971	.01	-.00	-.00	-.00	-.00	.53	.27	.11	.03	.13	.11	.08	1.25
1972	.00	-.00	-.00	-.00	0.00	.46	.22	.09	.02	.07	.06	.04	.95
1973	-.00	-.00	-.00	-.00	0.00	.30	.21	.08	.00	.02	.01	.01	.63
1974	-.00	-.00	-.00	-.00	0.00	.17	.21	.08	.00	.02	.01	.01	.50
1975	-.00	0.00	0.00	0.00	0.00	.04	.11	.08	0.00	0.00	0.00	0.00	.22



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	3.25	2.28	.92	.01	0.00	29.97	18.93	7.21	33.17	2.40	2.41	3.03	103.58
1930	3.36	2.94	1.50	0.00	17.82	68.01	26.63	7.74	15.67	8.68	3.60	3.30	159.24
1931	.92	1.15	.76	.91	6.31	5.26	6.31	4.25	7.27	4.18	2.87	2.63	42.84
1932	2.60	1.21	.98	.01	5.75	13.17	8.79	3.54	12.27	7.29	2.21	2.21	60.05
1933	2.19	3.00	1.40	.00	.30	48.37	15.53	10.79	10.17	6.47	2.49	2.32	103.05
1934	2.89	1.90	1.50	.20	.20	11.07	10.43	2.99	8.27	5.17	2.59	2.52	49.75
1935	1.39	1.20	.50	0.00	0.00	8.07	2.33	2.49	12.27	7.97	1.69	2.32	40.25
1936	1.29	.90	.40	.00	0.00	10.27	6.23	2.09	2.07	5.37	2.39	2.72	33.75
1937	.79	.70	.20	0.00	0.00	9.47	6.23	1.79	48.17	19.67	2.39	2.42	91.85
1938	.97	1.82	1.22	.30	.05	17.98	4.37	2.96	14.60	52.61	3.94	2.54	103.37
1939	3.02	2.75	1.35	.53	.30	51.77	20.23	7.99	13.76	6.08	2.23	2.72	112.74
1940	2.12	2.25	1.30	.37	.20	5.92	13.24	8.46	3.29	5.10	2.30	2.26	46.82
1941	1.62	1.64	1.24	.23	.00	26.97	10.36	10.06	73.37	5.34	2.44	3.11	136.40
1942	4.12	2.05	.93	0.00	0.00	15.50	21.69	17.30	27.46	7.70	2.88	2.57	102.22
1943	1.74	1.71	.29	0.00	19.95	144.47	96.54	50.42	58.39	45.67	4.84	3.57	427.60
1944	1.98	3.78	1.43	.21	.38	10.27	78.83	43.53	66.51	29.63	3.25	3.54	243.36
1945	2.26	4.39	1.32	.47	9.21	98.47	77.20	33.28	14.36	4.55	3.47	2.80	251.79
1946	1.58	1.40	.86	0.00	.14	22.59	4.52	2.10	4.72	6.29	2.47	2.66	49.34
1947	1.97	1.76	.82	0.00	14.79	39.35	52.82	47.44	52.62	17.55	5.29	2.81	237.23
1948	1.78	1.74	1.28	.24	.00	102.87	61.64	51.43	14.19	14.08	5.76	3.00	258.03
1949	1.12	1.82	.89	0.00	.00	54.06	123.13	29.23	18.30	4.25	2.62	2.89	238.32
1950	2.81	1.71	.79	.10	.10	5.20	384.43	85.91	20.11	5.42	3.48	3.14	513.20
1951	3.34	2.15	1.35	.93	.79	82.78	122.33	10.79	7.60	10.03	8.86	7.10	258.07
1952	5.29	4.38	1.41	.15	.24	.65	334.23	14.61	10.61	10.27	7.00	8.58	397.44
1953	4.73	5.36	.73	.38	.61	5.72	5.01	9.86	35.82	10.72	5.32	5.25	89.51
1954	6.66	2.17	4.73	3.48	13.41	10.75	62.63	13.94	6.36	4.23	4.08	4.05	136.51
1955	2.88	2.44	1.62	.28	.40	5.31	5.12	3.11	6.08	6.32	3.72	1.56	38.77
1956	3.06	3.26	3.06	2.12	1.32	48.65	18.93	9.34	6.50	8.32	3.21	2.39	110.18
1957	3.63	5.48	1.78	.51	.07	4.70	5.15	3.99	8.51	13.87	1.61	2.03	51.35
1958	3.27	3.72	1.70	.71	.32	15.61	18.35	4.17	7.34	4.35	2.70	2.88	65.14
1959	3.17	2.21	.51	0.00	0.00	63.46	26.59	3.62	3.49	2.34	2.15	2.42	109.97
1960	3.50	1.76	1.53	.81	.33	38.30	18.22	4.29	14.85	4.20	2.22	3.06	93.09
1961	2.15	1.75	1.28	.59	.33	2.27	1.82	1.10	1.16	.65	.76	1.68	15.55
1962	.89	.82	.32	0.00	0.00	7.66	3.73	9.47	12.81	6.49	1.77	2.35	46.32
1963	1.02	1.73	1.19	.07	0.00	3.85	3.69	3.02	9.96	6.48	8.74	3.63	43.40
1964	3.16	2.49	1.18	.28	.42	.59	4.40	3.60	24.84	38.45	4.16	2.96	86.55
1965	3.34	1.76	.45	0.00	0.00	0.00	41.93	31.89	34.50	4.49	5.35	6.64	130.36
1966	4.92	1.92	2.13	.41	0.00	100.57	16.24	5.61	60.68	38.08	7.78	4.56	242.92
1967	3.62	2.41	1.63	1.23	1.03	120.47	48.40	108.69	10.98	4.90	6.01	5.01	314.40
1968	3.00	2.17	1.56	.04	.38	13.50	4.46	2.04	8.02	2.93	6.35	2.16	46.63
1969	1.39	.98	.66	.16	.09	3.73	256.93	11.62	8.73	74.26	6.62	6.27	371.46
1970	2.81	2.40	1.84	.97	.96	1.24	34.46	221.89	34.04	15.16	10.00	6.38	332.17
1971	3.41	2.11	1.37	.48	1.53	103.47	72.04	19.01	36.14	12.64	5.60	6.01	263.83
1972	3.65	1.71	1.90	1.44	.69	171.34	51.94	69.95	55.84	15.68	10.69	7.48	392.33
1973	2.50	2.97	2.24	3.21	15.77	87.35	10.89	8.60	6.12	4.78	5.14	3.55	153.12
1974	1.80	1.95	1.98	2.77	4.40	8.58	5.90	3.61	3.88	3.61	3.25	2.47	44.20
1975	1.97	1.85	1.53	.53	.19	1.45	133.39	123.83	27.11	12.08	7.91	3.63	315.47
AVG	2.66	2.26	1.31	.54	2.53	36.20	50.16	24.14	20.70	12.48	4.23	3.52	160.71



*Cannonball River  
at Breien  
6-3540*



## HISTORICAL FLOW STA 6-3540

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	.70	.80	.50	.40	.30	133.30	23.50	4.80	31.10	1.30	1.10	.30	198.10
1930	1.30	.60	.30	.30	22.80	47.70	14.50	7.80	4.80	1.80	0.00	.30	102.20
1931	.80	.40	.30	.80	2.50	2.50	3.50	.80	4.20	3.00	1.10	.40	20.30
1932	.10	.30	0.00	.10	11.80	34.60	9.20	5.40	50.30	6.00	.20	.10	118.10
1933	.40	.40	.20	.20	1.30	48.50	11.00	7.50	2.60	.50	0.00	0.00	72.60
1934	0.00	.10	.10	0.00	0.00	.60	1.10	.10	.70	.40	.10	0.00	3.20
1935	.60	.10	0.00	0.00	0.00	6.40	1.60	5.60	9.20	19.70	2.50	.10	45.80
1936	.10	.10	0.00	0.00	.40	35.40	7.00	1.40	.20	0.00	0.00	.10	44.70
1937	0.00	.10	0.00	0.00	0.00	19.30	18.70	1.50	141.90	15.20	2.10	5.10	203.90
1938	.90	.60	.40	.40	.40	23.00	4.30	2.80	32.30	74.20	2.40	3.30	145.00
1939	.60	.70	.70	.20	0.00	43.80	8.50	2.00	13.50	10.50	.00	.40	81.80
1940	.10	.20	.40	0.00	0.00	8.70	17.30	18.40	1.10	3.20	5.70	.50	55.60
1941	.60	.40	.50	0.00	0.00	54.40	9.40	3.20	85.90	3.60	.40	2.60	160.60
1942	2.10	1.00	.50	.10	.20	7.00	17.60	23.70	12.30	3.30	1.70	1.30	70.80
1943	.70	.70	.20	.10	17.60	278.20	69.50	8.60	49.80	32.30	3.20	1.60	462.50
1944	1.00	2.20	.90	.60	.60	3.30	198.60	9.80	85.50	27.80	3.10	1.80	335.20
1945	1.60	4.40	1.30	.80	13.10	85.10	15.30	5.90	19.20	4.10	2.60	1.40	154.80
1946	.50	.90	.70	.20	.40	15.80	5.00	1.90	5.40	11.30	.80	1.10	44.00
1947	3.60	1.30	.50	.60	25.00	55.00	58.80	6.00	57.40	15.70	1.60	.50	226.00
1948	2.30	1.90	1.20	1.10	2.40	144.30	17.60	8.10	4.60	8.50	4.70	.50	197.20
1949	.40	1.50	.60	.20	0.00	109.20	130.80	19.60	9.10	1.90	3.70	.80	277.80
1950	1.30	.80	.30	0.00	0.00	5.20	599.40	71.20	18.80	7.10	11.90	3.70	719.70
1951	3.30	2.50	1.90	1.60	4.20	108.20	30.80	7.10	22.90	6.30	12.10	9.30	210.10
1952	4.20	2.90	1.50	.60	1.10	7.20	429.90	13.60	10.80	13.00	5.30	4.40	494.50
1953	1.00	1.20	1.00	.80	1.20	16.50	8.30	49.00	89.30	11.10	5.50	1.30	186.20
1954	1.30	1.80	1.50	.50	4.60	5.70	30.80	4.30	6.30	2.50	3.60	8.00	70.90
1955	1.00	1.00	.80	.30	.10	10.30	5.80	3.60	6.20	8.30	4.00	2.50	43.90
1956	.50	.20	0.00	0.00	0.00	89.50	13.60	5.00	3.20	5.40	4.60	2.50	124.50
1957	.40	2.20	.90	.50	.10	1.50	4.00	8.40	45.30	16.00	3.50	1.20	84.00
1958	1.10	1.80	1.30	.40	.30	17.70	17.80	1.80	25.80	4.50	.30	.10	72.90
1959	0.00	.20	.20	0.00	0.00	70.30	8.90	2.60	1.40	.40	.20	0.00	84.20
1960	.10	0.00	.10	0.00	0.00	34.90	6.50	3.40	3.10	1.30	.90	0.00	50.30
1961	0.00	0.00	0.00	0.00	.20	1.40	1.00	.60	1.20	0.00	.90	1.70	7.00
1962	.20	.10	0.00	0.00	0.00	15.20	3.80	17.00	37.00	9.30	5.20	1.50	89.30
1963	.50	.60	.30	.10	.20	16.80	7.50	4.20	10.20	6.00	1.30	.30	48.00
1964	.30	.30	.10	0.00	0.00	.70	3.60	7.10	72.20	9.50	.30	.10	94.20
1965	.10	.30	.10	0.00	0.00	.20	46.80	27.70	25.80	5.20	2.50	1.80	110.50
1966	1.20	.90	.80	.10	0.00	142.60	17.90	7.90	21.40	37.40	5.10	1.10	236.40
1967	1.10	1.20	1.10	.70	5.10	55.80	16.40	75.10	13.50	3.90	.60	.70	175.20
1968	.70	.70	.70	.20	.10	12.40	6.00	2.30	3.50	1.20	2.40	.90	31.10
1969	.10	.70	.40	.20	0.00	59.40	172.10	8.30	9.30	86.60	7.10	1.00	345.20
1970	1.00	1.50	1.30	.70	.70	3.20	32.10	119.00	26.40	4.40	8.00	1.50	199.80
1971	1.02	2.68	1.50	.94	3.26	154.00	93.05	16.44	46.03	22.61	4.84	1.01	347.39
1972	5.46	2.84	2.04	1.26	1.06	217.70	31.77	141.00	42.21	14.92	10.62	3.65	474.53
1973	4.68	3.83	1.48	21.02	20.87	49.23	16.69	8.96	8.37	2.55	.40	2.16	140.24
1974	2.74	1.23	1.31	2.97	7.17	6.82	8.51	4.71	3.00	.39	.01	0.00	38.85
1975	.03	.61	.54	.22	.07	2.69	100.10	147.50	20.70	11.41	5.73	1.45	291.04
AVG	1.10	1.08	.64	.83	3.17	48.11	50.13	19.21	25.43	11.40	3.08	1.58	165.75



## SUMMATION OF MONTHLY DEPLETIONS STA 6-3540

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	.05	-.02	-.01	-.01	.04	2.07	1.89	1.78	2.63	1.84	1.39	.21	11.87
1930	.05	-.02	-.01	-.01	.04	2.07	1.89	1.78	2.63	2.14	.49	.21	11.27
1931	.05	-.02	-.01	-.01	.04	1.67	1.49	1.08	2.43	2.04	1.39	.21	10.37
1932	.05	-.02	-.01	-.01	.04	2.07	1.79	1.78	2.63	2.14	.69	.21	11.37
1933	.05	-.02	-.01	-.01	.04	2.07	1.79	1.78	2.63	1.04	.49	.21	10.07
1934	.05	-.02	-.01	-.01	.04	.97	.69	.38	1.03	.94	.59	.21	4.87
1935	.05	-.02	-.01	-.01	.04	2.07	1.79	1.78	2.63	2.14	1.39	.21	12.07
1936	.05	-.02	-.01	-.01	.04	1.97	1.79	1.68	.53	.54	.49	.21	7.27
1937	.05	-.02	-.01	-.01	.04	1.97	1.79	1.78	2.63	2.14	1.39	.21	11.97
1938	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	2.63	2.14	1.39	.21	11.87
1939	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	2.63	2.14	1.39	.21	11.87
1940	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	1.43	2.14	1.39	.21	10.67
1941	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	2.53	2.14	.89	.21	11.27
1942	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	2.53	2.14	1.39	.21	11.77
1943	.05	-.02	-.01	-.01	.14	2.17	1.99	1.88	2.73	2.14	1.39	.21	12.67
1944	.05	-.02	-.01	-.01	.04	2.17	1.89	1.88	2.73	2.14	1.49	.21	12.57
1945	.05	-.08	-.01	-.01	.04	1.87	1.69	1.78	2.53	2.04	1.39	.21	11.67
1946	.05	-.02	-.11	-.01	.04	1.57	1.29	1.58	2.23	1.94	1.29	.21	10.07
1947	.05	-.12	-.01	-.01	.04	1.87	1.59	1.68	2.53	2.04	1.39	.21	11.27
1948	.05	-.02	-.01	-.01	.14	1.77	1.49	1.68	2.43	2.04	1.39	.21	11.17
1949	.05	-.02	-.01	-.01	.04	1.97	1.69	1.78	2.43	2.04	1.39	.21	11.57
1950	.05	-.12	-.01	-.01	.04	1.87	1.59	1.88	2.33	1.94	1.29	.21	11.07
1951	.05	-.02	-.01	-.01	.14	1.57	1.29	1.48	2.03	1.74	1.19	.21	9.66
1952	.05	-.02	-.01	-.01	.04	1.77	1.49	1.48	2.13	1.74	1.19	.21	10.07
1953	.05	-.02	-.01	-.01	.04	1.47	1.19	1.18	1.83	1.54	1.09	.21	8.56
1954	.05	-.02	-.01	-.11	.04	1.37	1.09	1.28	1.73	1.54	.99	.21	8.16
1955	.05	-.02	-.01	-.01	.04	1.07	.89	1.18	1.53	1.44	.99	.21	7.36
1956	.05	-.02	-.01	-.01	.04	1.27	.99	1.28	1.63	1.44	.99	.21	7.86
1957	.15	-.02	-.01	-.01	.04	1.27	.99	.88	1.33	1.24	.89	.21	6.96
1958	.05	-.02	-.01	-.01	.04	1.17	.99	.78	1.13	1.14	.79	.21	6.26
1959	.05	-.02	-.01	-.01	.04	1.17	.89	.78	1.13	.94	.69	.21	5.86
1960	.05	-.02	-.11	-.01	.04	1.07	.79	.78	1.13	1.04	.79	.21	5.76
1961	.05	-.12	-.01	-.01	.04	.97	.69	.68	.83	.54	.69	.21	4.57
1962	.05	-.02	-.01	-.01	.04	.97	.69	.68	.93	.84	.59	.21	4.97
1963	.05	-.02	-.01	-.01	.14	.97	.69	.68	.73	.84	.69	.21	4.97
1964	.05	-.02	-.01	-.01	.04	.97	.59	.48	.73	.84	.59	.21	4.47
1965	.05	-.02	-.01	-.01	.04	.77	.59	.48	.73	.74	.59	.21	4.17
1966	.05	-.02	-.01	-.01	.04	.77	.49	.48	.53	.74	.59	.21	3.87
1967	.05	-.02	-.01	-.01	.04	.67	.49	.48	.53	.74	.49	.21	3.67
1968	.05	-.02	-.01	-.01	.04	.67	.29	.38	.53	.64	.49	.21	3.27
1969	-.05	-.02	-.01	-.01	.04	.67	.39	.28	.43	.54	.49	.21	2.97
1970	.05	-.02	-.01	-.01	.04	.57	.29	.28	.33	.54	.49	.21	2.77
1971	.05	-.02	-.01	-.01	.04	.57	.29	.28	.33	.54	.49	.21	2.77
1972	.07	-.01	-.00	-.00	.04	.46	.22	.25	.20	.34	.32	.16	2.05
1973	.07	-.01	-.00	-.00	.04	.22	.23	.25	.17	.29	.28	.15	1.68
1974	0.00	-.00	-.00	-.00	.05	.04	.16	.17	.05	.08	.08	.02	.65
1975	0.00	0.00	0.00	0.00	0.00	0.00	.11	.16	0.00	0.00	0.00	0.00	.26



1975 DEPLETION LEVEL STA 6-3540

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	.65	.82	.51	.41	.26	131.23	21.61	3.02	28.47	0.00	0.00	.10	187.07
1930	1.25	.62	.31	.31	22.76	45.63	12.61	6.02	2.17	0.00	0.00	.10	91.77
1931	.75	.42	.31	.81	2.46	.83	2.01	0.00	1.77	.96	0.00	.20	10.50
1932	.05	.32	.01	.11	11.76	32.53	7.41	3.62	47.67	3.86	0.00	0.00	107.33
1933	.35	.42	.21	.21	1.26	46.43	9.21	5.72	0.00	0.00	0.00	0.00	63.80
1934	0.00	.12	.11	.01	0.00	0.00	.41	0.00	0.00	0.00	0.00	0.00	.64
1935	.55	.12	.01	.01	0.00	4.33	0.00	3.82	6.57	17.56	1.11	0.00	34.07
1936	.05	.12	.01	.01	.36	33.43	5.21	0.00	0.00	0.00	0.00	0.00	39.17
1937	0.00	.12	.01	.00	0.00	17.33	16.91	0.00	139.27	13.06	.71	4.90	192.30
1938	.85	.62	.41	.41	.36	21.03	2.61	1.02	29.67	72.06	1.01	3.10	133.14
1939	.55	.72	.71	.21	0.00	41.83	6.81	.22	10.87	8.36	0.00	.20	70.47
1940	.05	.22	.41	.01	0.00	6.73	15.61	16.62	0.00	1.06	4.31	.30	45.30
1941	.55	.42	.11	.01	0.00	52.43	7.71	1.42	83.37	1.46	0.00	2.40	149.87
1942	2.05	1.02	.51	.11	.16	5.03	15.91	21.92	9.77	1.16	.31	1.10	59.04
1943	.65	.72	.21	.11	17.46	276.03	67.51	6.72	47.07	30.16	1.81	1.40	449.83
1944	.95	2.22	.91	.61	.56	1.13	196.71	7.92	82.77	25.66	1.61	1.60	322.64
1945	1.55	4.32	1.31	.81	13.06	83.23	13.61	4.12	16.67	2.06	1.21	1.20	143.14
1946	.45	.92	.81	.21	.36	14.23	3.71	.32	3.17	9.36	0.00	.90	34.43
1947	3.55	1.42	.51	.61	24.96	53.13	57.21	4.32	54.87	13.66	.21	.30	214.74
1948	2.25	1.92	1.21	1.11	2.26	142.53	16.11	6.42	2.17	6.46	3.31	.30	186.04
1949	.35	1.52	.61	.21	0.00	107.23	129.11	17.82	6.67	0.00	2.31	.60	266.41
1950	1.25	.92	.31	.01	0.00	3.33	597.81	69.32	16.47	5.16	10.61	3.50	708.67
1951	3.25	2.52	1.81	1.61	4.06	106.63	29.51	5.62	20.87	4.56	10.91	9.10	200.44
1952	4.15	2.92	1.51	.61	1.06	5.43	428.41	12.12	8.67	11.26	4.11	4.20	484.44
1953	.95	1.22	1.01	.81	1.16	15.03	7.11	47.82	87.47	9.56	4.41	1.10	177.64
1954	1.25	1.82	1.51	.61	4.56	4.33	29.71	3.02	4.57	.96	2.61	7.80	62.73
1955	.95	1.02	.81	.31	.06	9.23	4.91	2.42	4.67	6.86	3.01	2.30	36.54
1956	.45	.22	.01	.01	0.00	88.23	12.61	3.72	1.57	3.96	3.61	2.30	116.67
1957	.25	2.22	.91	.51	.06	.23	3.01	7.52	43.97	14.76	2.61	1.00	77.04
1958	1.05	1.82	1.31	.41	.26	16.53	16.81	1.02	24.67	3.36	0.00	0.00	67.23
1959	0.00	.22	.21	.01	0.00	69.13	8.01	1.82	.27	0.00	0.00	0.00	79.66
1960	.05	.02	.21	.01	0.00	33.83	5.71	2.62	1.97	.26	.11	0.00	44.78
1961	0.00	.12	.01	.01	.16	.43	.31	0.00	.37	0.00	.21	1.50	3.10
1962	.15	.12	.01	.01	0.00	14.23	3.11	16.32	36.07	8.46	4.61	1.30	84.37
1963	.45	.62	.31	.11	.06	15.83	6.81	3.52	9.47	5.16	.61	.10	43.03
1964	.25	.32	.11	.01	0.00	0.00	3.01	6.62	71.47	8.66	0.00	0.00	90.44
1965	.05	.32	.11	.01	0.00	0.00	46.21	27.22	25.07	4.46	1.91	1.60	106.94
1966	1.15	.92	.81	.11	0.00	141.83	17.41	7.42	20.87	36.66	4.51	.90	232.57
1967	1.05	1.22	1.11	.71	5.06	55.13	15.91	74.62	12.97	3.16	.11	.50	171.54
1968	.65	.72	.71	.21	.06	11.73	5.71	1.92	2.97	.56	1.91	.70	27.84
1969	.15	.72	.41	.21	0.00	58.73	171.71	8.02	8.87	86.06	6.61	.80	342.27
1970	.95	1.52	1.31	.71	.66	2.63	31.81	118.72	26.07	3.86	7.51	1.30	197.04
1971	.97	2.70	1.51	.95	3.22	153.43	92.76	16.16	45.70	22.07	4.35	.81	344.62
1972	5.39	2.85	2.04	1.26	1.02	217.24	31.55	140.75	42.01	14.58	10.30	3.49	472.48
1973	4.61	3.84	1.48	21.02	20.83	49.01	16.47	8.71	8.20	2.26	.13	2.01	138.56
1974	2.74	1.23	1.31	2.97	7.13	6.78	8.35	4.54	2.95	.30	0.00	0.00	38.30
1975	.03	.61	.54	.22	.07	2.69	100.00	147.34	20.70	11.41	5.73	1.45	290.78
AVG	1.05	1.10	.65	.84	3.14	46.77	48.99	18.09	23.87	10.11	2.30	1.41	158.33



WYOMING



Wind River  
below Boysen Reservoir  
6-2590



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	53.00	41.80	31.90	29.50	23.90	156.00	93.90	131.00	299.50	152.50	74.10	71.80	1158.90
1930	62.90	36.10	34.50	19.50	32.80	46.70	77.80	172.00	305.50	216.50	303.50	84.90	1392.70
1931	90.60	49.00	29.40	22.80	29.00	40.90	45.30	188.00	277.50	69.10	80.90	36.90	959.40
1932	39.30	31.70	23.20	24.90	29.50	45.20	47.60	260.00	377.50	205.50	71.70	32.90	1189.00
1933	36.00	35.40	22.80	24.90	19.20	39.60	50.30	130.00	560.50	119.50	77.20	55.30	1170.70
1934	32.90	29.00	21.80	24.60	26.30	27.60	60.10	147.00	56.00	53.30	43.30	27.70	549.60
1935	33.90	29.40	23.30	20.90	24.60	29.90	34.90	106.50	541.90	198.00	43.00	26.10	1112.40
1936	21.70	30.10	22.60	23.40	21.90	40.40	59.80	193.50	340.10	132.90	112.70	29.10	1028.20
1937	45.00	38.90	22.90	17.50	20.40	41.20	56.10	198.10	367.80	279.50	41.30	34.20	1162.90
1938	35.90	29.20	24.20	22.40	20.90	41.30	54.10	124.00	252.20	145.80	65.20	82.50	897.70
1939	71.90	53.50	41.30	35.00	27.40	52.50	52.90	104.70	116.80	53.30	45.60	37.90	692.80
1940	30.20	26.80	24.90	26.20	24.90	32.60	26.70	58.20	70.90	43.70	42.70	52.40	460.20
1941	51.80	23.10	33.20	33.50	25.30	40.70	64.00	196.00	250.80	101.50	142.40	82.40	1044.70
1942	113.70	59.50	47.10	41.90	39.90	55.50	88.10	199.40	279.50	179.50	49.90	51.50	1205.50
1943	50.40	50.70	41.20	48.40	47.80	66.90	132.30	205.10	400.30	356.70	114.50	66.90	1581.20
1944	50.20	47.60	38.70	31.50	35.60	42.50	70.30	238.30	504.00	246.50	47.00	36.90	1389.10
1945	51.10	37.80	33.70	40.50	35.50	52.00	59.50	142.30	312.80	301.90	102.00	86.90	1256.00
1946	84.10	42.50	35.50	42.70	42.00	54.10	74.10	102.10	251.40	138.10	48.00	72.60	987.20
1947	80.10	48.00	38.70	33.50	37.90	53.90	60.80	302.10	511.80	382.00	139.90	64.10	1752.80
1948	78.50	61.30	43.50	48.30	55.90	69.80	69.70	161.30	332.20	127.50	47.60	58.50	1154.10
1949	49.80	40.20	36.90	34.60	38.50	61.00	69.10	202.10	301.60	140.50	50.10	68.70	1093.10
1950	85.30	65.00	40.20	39.30	44.00	51.30	56.20	116.30	393.30	308.20	83.10	104.30	1386.50
1951	102.20	69.30	49.70	44.60	52.20	60.50	67.10	237.50	378.20	292.50	136.00	70.92	1560.72
1952	36.18	21.50	26.67	23.20	12.00	13.10	23.12	47.77	69.40	84.65	75.65	65.29	498.59
1953	66.65	54.27	60.03	63.32	77.47	84.00	83.54	83.58	70.81	64.27	67.76	68.55	844.25
1954	69.82	68.75	70.10	53.45	19.85	21.89	61.06	110.30	91.60	96.24	76.42	70.97	810.45
1955	54.00	81.64	88.18	84.71	49.48	74.36	94.25	76.91	74.04	64.27	72.34	63.92	878.10
1956	43.46	69.72	90.82	108.80	100.80	68.40	55.71	69.68	76.58	78.45	81.90	107.00	951.32
1957	113.70	109.10	90.09	64.44	53.56	66.59	43.60	107.30	188.50	375.00	112.80	85.27	1409.95
1958	119.60	110.70	102.10	135.70	122.30	85.93	62.36	82.95	64.64	68.03	58.69	101.20	1114.20
1959	130.00	124.10	123.30	113.00	38.03	37.23	59.83	58.52	68.85	68.25	68.61	57.79	947.51
1960	49.80	51.31	48.08	51.52	45.24	50.06	41.30	63.97	65.85	68.47	67.54	50.56	653.70
1961	20.44	18.43	21.21	21.36	18.80	20.76	32.82	53.89	60.82	62.90	61.67	51.01	444.11
1962	52.84	56.28	58.06	55.29	51.01	105.30	89.86	90.41	87.25	86.70	98.60	85.41	917.01
1963	88.19	66.71	89.78	58.54	39.13	49.33	44.70	57.80	219.90	175.10	67.29	57.77	1014.24
1964	76.71	94.04	119.50	110.80	40.91	46.29	98.63	119.20	111.70	133.10	89.79	71.88	1112.55
1965	59.83	60.10	78.01	76.28	66.45	92.95	96.34	88.66	175.70	438.70	142.50	72.44	1447.96
1966	119.30	117.40	116.90	89.53	61.61	48.72	42.01	62.17	61.23	69.07	68.07	47.15	903.16
1967	39.97	39.81	38.31	47.06	59.61	86.24	72.91	68.83	310.60	542.10	117.20	74.96	1497.60
1968	74.84	94.27	87.85	66.86	94.02	108.10	106.80	90.01	77.75	99.09	78.15	95.46	1073.20
1969	89.74	102.00	88.30	67.18	103.90	119.80	85.72	75.09	93.78	119.90	75.61	73.19	1094.21
1970	74.52	81.49	65.98	67.30	98.68	108.40	86.66	71.74	69.40	77.54	63.53	52.76	918.00
1971	47.74	54.43	72.50	74.08	94.73	114.10	114.80	124.60	227.80	276.80	112.00	100.20	1413.78
1972	88.07	99.00	63.51	113.00	104.40	117.50	113.40	120.00	234.70	160.10	129.50	102.60	1445.78
1973	95.09	98.36	99.55	76.05	59.02	58.51	72.08	111.30	96.24	102.30	94.59	148.90	1111.99
1974	130.30	94.93	63.88	59.33	90.70	124.60	133.10	141.50	179.40	180.50	137.30	80.85	1416.39
1975	69.08	60.79	91.44	74.00	56.69	63.53	79.56	98.40	135.40	265.40	132.30	82.34	1208.93
AVG	67.24	59.68	55.65	52.88	49.23	63.14	69.47	127.45	221.15	170.24	87.48	68.15	1091.75



## WIND RIVER BELOW BOYSEN RESERVOIR

MONTHLY DEPLEITIONS STA 6-2590

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	-9.50	7.80	1.90	6.30	-5.00	58.20	-2.30	-58.80	-18.10	-42.70	-65.00	-2.60	-129.80
1930	43.50	4.60	0.00	-3.50	5.40	-9.20	17.50	-31.00	12.30	126.10	58.20	37.50	261.40
1931	-19.10	-8.30	2.40	-6.0	-5.70	20.70	22.70	-47.00	-75.70	-125.10	9.20	4.00	-222.50
1932	2.50	-4.10	-5.0	-9.0	9.50	24.40	14.30	146.40	-146.60	74.70	-5.50	-22.40	91.80
1933	3.50	6.80	1.90	1.20	-6.30	-95.90	-117.40	-122.20	-406.00	66.20	33.90	27.60	-205.30
1934	3.20	3.30	3.00	8.80	6.40	35.80	64.80	78.30	-469.30	-114.70	.30	1.60	-378.50
1935	8.00	-4.40	-3.80	-7.10	-1.50	14.50	.10	-62.00	223.80	35.10	-69.70	-3.00	130.00
1936	-24.10	-9.60	-1.60	4.50	.20	32.20	35.00	29.40	12.10	-23.30	71.40	-5.10	121.10
1937	27.20	29.50	17.90	4.00	4.10	-65.10	-61.30	8.10	42.10	30.70	-23.90	-48.30	-35.00
1938	-37.20	-26.10	-23.90	-14.80	-9.90	-22.60	-10.20	7.90	130.60	72.20	19.60	44.60	130.20
1939	27.80	11.70	7.70	5.90	5.30	4.10	9.60	32.50	45.80	9.60	2.90	-14.50	148.40
1940	-9.40	15.90	7.80	10.40	18.20	14.80	-14.30	-121.80	-179.90	-57.80	-99.70	-30.00	-445.80
1941	-74.10	-49.50	-31.50	-28.50	-35.90	38.50	29.90	55.00	26.40	-12.20	92.50	30.90	41.50
1942	60.70	7.10	4.10	-7.90	-9.20	59.40	24.80	66.90	-55.70	-2.20	-51.00	-15.40	81.60
1943	8.20	17.60	5.00	16.50	11.90	35.40	74.00	-25.80	-76.80	-1.00	53.90	30.00	148.90
1944	-8.40	-4.20	3.40	-7.70	1.30	-97.30	-76.20	10.00	94.40	.70	-53.10	-42.20	-179.30
1945	20.70	4.50	-3.20	2.50	.30	-2.10	-16.60	37.20	52.50	1.00	52.10	6.50	155.40
1946	-50.60	-7.20	-1.0	3.20	-.60	112.60	126.80	-85.60	-148.50	4.70	-48.60	8.50	-85.40
1947	34.90	6.10	-.50	-3.60	.20	-88.90	-82.20	66.40	109.90	8.00	49.00	5.60	104.90
1948	-4.20	-6.30	.20	3.40	-3.40	.20	-8.00	-49.80	18.20	-1.80	-2.50	-10.20	-64.20
1949	-33.60	5.40	-.80	-3.70	3.10	16.20	18.80	92.10	-84.50	5.60	-33.00	-13.00	-27.40
1950	47.60	1.50	1.40	-.40	-.40	24.80	22.60	-86.50	47.20	12.50	4.70	10.80	80.00
1951	82.50	33.80	13.20	21.40	29.80	35.40	32.20	176.70	299.00	34.10	2.80	5.60	766.50
1952	-113.80	-52.20	-34.70	-42.90	-68.70	-142.20	-123.60	-98.80	-62.30	-12.10	7.90	-3.30	-746.70
1953	-2.80	-14.50	-10.10	6.30	54.40	74.10	6.50	-22.70	-19.80	44.40	-8.70	-2.40	104.70
1954	15.80	-12.90	-18.10	-31.30	-29.60	-106.50	-65.20	-17.60	-21.80	-44.40	4.10	7.00	-320.50
1955	10.90	12.70	-1.70	-23.20	-50.90	120.80	152.50	120.20	99.50	48.50	-9.60	-43.10	436.60
1956	-71.00	-40.20	-.20	43.50	46.80	24.20	33.50	-15.20	-89.30	-98.90	-16.80	22.70	-160.90
1957	64.30	25.40	3.00	-63.80	-54.80	-76.20	-76.00	-34.70	64.20	46.60	40.00	-16.90	-78.90
1958	-79.70	-39.50	-35.30	16.10	71.30	-9.60	-55.70	-30.90	-65.20	-.20	-9.90	43.40	-195.20
1959	80.20	72.40	74.70	61.00	-7.60	-55.30	-23.10	-45.80	-2.30	-.20	1.10	7.20	162.30
1960	31.50	35.00	29.30	33.10	29.40	32.60	12.10	13.90	5.00	5.60	5.90	-.50	232.90
1961	-32.80	-38.40	-37.40	-34.90	-34.00	12.30	38.40	60.00	36.10	68.90	-36.90	-34.40	-33.10
1962	-38.00	-12.80	-34.40	-5.60	10.20	69.20	60.10	43.60	-111.40	-124.20	31.30	27.60	-84.40
1963	22.60	-20.80	-29.70	-52.70	-2.20	-20.50	-74.90	-82.10	91.70	127.00	-22.50	-14.10	-78.20
1964	6.20	28.10	42.30	35.30	-24.70	-1.80	45.20	73.40	-20.30	-127.60	-2.90	10.60	63.80
1965	2.70	-28.00	-27.60	-14.10	4.80	-64.70	-56.70	-85.60	3.50	49.70	24.60	14.10	-177.30
1966	17.10	48.30	67.30	42.90	1.60	107.10	114.50	139.50	-111.90	-108.20	-49.10	-27.80	241.30
1967	1.30	-28.90	-40.40	-20.20	-27.60	-89.70	-102.20	-89.80	164.80	108.40	65.90	-20.50	-78.90
1968	-7.20	11.10	-1.0	4.90	-15.20	-8.70	24.10	17.60	-13.30	-16.10	-24.30	22.30	-4.90
1969	-29.10	-24.30	12.00	-4.90	3.70	-18.80	-31.10	-26.90	-6.10	30.00	12.10	20.40	-63.00
1970	39.70	46.70	28.20	29.10	63.90	-4.50	-24.40	-38.50	-37.60	-12.60	-4.10	-12.60	-73.30
1971	-6.30	-10.60	43.00	-4.90	24.30	-8.40	-50.60	-47.40	-58.90	19.20	-4.30	-23.60	-128.50
1972	-19.00	-11.40	-48.00	-24.90	33.40	14.00	-3.70	-36.30	93.50	18.90	13.70	77.20	107.40
1973	-23.50	15.40	47.70	28.70	-19.70	-35.00	-30.00	.80	-52.20	-41.80	-39.20	-48.80	-197.60
1974	40.20	13.10	-48.60	-35.70	13.00	65.10	57.50	47.10	48.00	-83.30	21.30	-1.50	136.20
1975	-24.90	-33.20	-2.60	-20.00	-37.30	-56.50	-40.40	-21.60	15.40	140.80	40.50	10.90	-28.90



WIND RIVER BELOW COTLER RESERVOIR

1975 DEPLETION LEVEL STA 6-2590

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	68.50	68.40	52.10	98.30	21.60	188.90	202.50	192.40	85.00	13.70	35.50	51.40	1078.30
1930	68.90	70.50	56.60	94.60	25.50	137.80	184.10	174.60	72.90	35.00	199.90	61.90	1182.30
1931	140.10	88.00	51.50	94.40	27.10	122.80	169.10	159.60	57.20	13.70	35.50	51.40	1010.40
1932	69.70	62.40	47.70	95.90	21.90	147.80	194.10	184.60	81.50	25.00	35.50	51.40	1017.50
1933	68.90	62.00	46.80	95.00	21.10	166.60	211.10	201.00	117.90	13.70	35.50	51.40	1091.00
1934	69.30	62.40	47.70	95.90	21.90	58.70	103.50	95.80	19.40	13.70	35.50	51.40	675.20
1935	73.50	66.10	52.20	101.00	26.60	96.80	143.10	133.60	36.00	43.70	35.50	51.40	859.50
1936	69.30	62.40	47.70	96.40	22.40	121.80	168.10	158.60	58.00	13.70	35.50	51.40	905.30
1937	68.50	61.60	46.40	95.00	21.10	154.80	199.40	192.60	97.80	137.00	35.50	51.40	1161.10
1938	86.60	81.40	65.60	103.90	25.70	89.80	136.10	126.60	24.30	34.00	35.50	51.40	860.90
1939	85.40	79.60	58.80	101.70	22.30	78.40	124.70	115.20	19.50	13.70	35.50	51.40	786.20
1940	71.50	64.60	50.10	98.80	25.10	62.60	108.10	101.20	19.40	13.70	35.50	51.40	702.00
1941	83.70	76.80	66.20	116.50	43.70	85.50	131.10	117.20	19.40	13.70	35.50	51.40	840.70
1942	71.50	63.70	48.60	96.40	22.40	138.80	185.10	175.60	74.50	79.50	35.50	51.40	1043.00
1943	68.90	62.00	46.80	95.00	21.10	209.60	254.10	248.20	139.60	254.50	49.10	51.40	1500.30
1944	76.90	76.50	49.30	94.60	20.80	220.60	266.10	255.60	166.50	143.30	35.50	51.40	1457.10
1945	69.40	62.50	47.70	95.90	22.00	132.80	179.10	169.60	69.70	199.40	37.40	59.20	1144.70
1946	123.10	71.70	46.30	100.60	28.80	132.80	177.10	166.60	60.80	36.60	35.50	51.40	1031.30
1947	68.50	70.00	49.40	94.60	24.10	245.20	290.60	281.00	172.70	285.20	78.80	51.40	1711.50
1948	101.80	89.40	53.70	105.80	42.30	172.20	217.30	206.60	103.00	38.70	35.50	51.40	1217.70
1949	68.90	62.00	47.30	95.50	21.50	163.60	208.70	197.60	90.60	49.90	35.50	51.40	1092.50
1950	70.80	92.20	49.80	96.50	30.10	170.10	214.60	203.90	97.80	223.20	35.50	74.00	1358.50
1951	135.30	95.00	57.90	101.40	37.90	204.10	248.10	238.60	129.90	220.00	93.10	51.42	1612.72
1952	151.78	81.00	48.07	101.40	27.56	192.10	236.32	225.57	120.10	46.25	35.55	51.39	1317.09
1953	68.45	61.57	46.73	98.62	24.27	120.80	173.14	162.58	59.21	13.77	35.56	51.35	916.05
1954	68.82	61.55	46.70	95.05	21.05	132.79	157.16	166.60	60.20	90.14	35.52	51.37	986.95
1955	68.80	61.54	46.68	95.01	21.08	78.76	125.15	115.61	20.84	13.77	35.54	51.32	734.10
1956	69.16	62.32	47.62	95.90	21.50	193.60	239.11	228.58	122.88	76.45	35.50	51.30	1243.92
1957	68.40	61.50	46.69	95.04	21.06	215.99	260.50	251.00	145.50	274.10	49.60	52.27	1541.65
1958	138.60	88.50	61.70	102.50	35.00	159.13	203.26	191.95	85.84	13.73	35.49	51.30	1167.00
1959	69.30	62.40	47.60	95.90	22.03	100.83	145.03	136.62	24.85	13.75	35.51	51.29	805.11
1960	69.30	62.01	47.08	95.42	21.64	58.36	103.40	96.27	19.55	13.77	35.54	51.26	673.60
1961	71.44	64.13	49.51	98.36	24.60	61.66	107.02	100.09	19.52	13.80	35.57	51.21	696.91
1962	71.04	63.58	48.96	97.39	22.81	158.50	202.46	196.61	82.05	106.50	35.60	51.21	1136.71
1963	68.39	61.21	46.28	95.04	21.13	171.73	217.40	207.60	103.30	70.70	35.59	51.17	1149.54
1964	79.51	67.74	46.30	94.60	20.71	148.19	196.43	186.90	86.80	155.70	35.59	51.18	1169.65
1965	68.83	61.90	47.11	95.38	21.55	193.05	239.34	229.76	130.50	333.70	85.40	62.34	1568.86
1966	131.00	91.20	58.40	94.53	21.51	84.12	128.31	117.67	19.53	13.77	35.57	51.15	846.76
1967	68.77	61.91	47.11	94.96	21.11	228.74	273.71	263.83	157.00	378.60	35.60	51.16	1682.50
1968	104.94	87.47	56.25	94.56	27.92	160.90	205.40	195.21	88.95	43.99	62.45	51.16	1179.20
1969	112.64	106.30	56.60	99.78	22.60	163.90	208.42	197.89	91.68	48.70	35.61	51.19	1195.31
1970	68.32	61.49	46.28	95.00	21.08	133.70	178.26	167.64	61.20	36.34	35.63	51.16	956.10
1971	81.24	81.13	81.00	130.88	81.03	134.90	182.00	182.00	182.00	223.00	80.00	86.00	1525.18
1972	115.27	115.10	115.01	164.90	115.00	129.90	130.00	130.00	130.00	125.50	93.20	64.80	1428.68
1973	103.29	103.06	103.05	103.05	103.02	84.91	84.98	85.00	85.04	86.60	71.99	188.30	1202.29
1974	115.00	115.03	115.08	115.03	115.00	116.00	116.00	116.00	116.00	123.00	75.50	71.45	1309.09
1975	93.98	93.99	94.04	94.00	93.99	120.03	119.96	120.00	120.00	124.60	91.80	71.44	1237.83
AVG	85.22	74.23	56.09	100.13	32.88	141.38	181.88	173.77	83.96	92.66	48.43	57.25	1127.87



Greybull River  
at Basin  
6-2775



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1931	19.40	10.40	7.99	7.38	5.55	9.80	5.48	44.30	72.80	.78	.78	1.02	185.68
1932	2.16	1.86	1.84	2.46	4.60	13.40	6.90	37.30	73.20	8.92	.90	.57	154.11
1933	4.49	7.44	4.58	3.63	3.33	6.15	22.10	30.80	82.70	.71	2.33	.11	168.43
1934	.10	4.69	6.15	5.53	3.61	1.26	5.38	2.64	.53	.19	.14	.20	30.42
1935	.08	.94	6.75	4.92	4.59	5.29	4.73	6.26	107.20	14.53	.24	.46	155.97
1936	.43	6.84	6.46	5.23	4.60	7.38	8.63	.76	12.83	2.61	7.68	.60	64.05
1937	1.10	7.80	7.36	4.43	3.55	8.92	15.47	10.93	58.76	21.49	.77	.79	141.37
1938	1.32	4.61	7.05	6.25	4.45	5.61	4.61	10.39	28.57	30.05	1.00	1.51	105.42
1939	2.09	7.67	7.03	6.25	4.90	11.60	9.84	5.73	5.87	.25	.28	.23	61.74
1940	.19	.66	5.63	4.05	4.35	5.52	3.03	.43	5.19	1.98	.45	1.38	32.85
1941	3.87	6.53	7.07	4.71	3.83	6.01	11.17	17.99	61.60	16.62	56.11	40.52	236.03
1942	30.36	17.61	8.59	4.80	6.26	10.26	17.61	44.20	59.45	12.86	2.67	4.08	218.75
1943	6.42	8.18	5.89	6.53	6.94	15.39	26.87	17.73	58.47	42.85	6.70	3.57	205.54
1944	4.23	9.22	7.93	6.46	6.23	7.84	13.29	45.89	82.44	30.26	2.83	1.25	217.87
1945	4.26	7.55	6.12	6.59	5.99	11.42	8.82	6.98	68.74	48.74	12.26	9.43	196.90
1946	8.03	9.89	9.08	8.31	6.93	10.95	12.70	3.89	17.26	7.08	2.47	13.82	110.41
1947	14.52	11.06	6.88	3.83	5.03	8.13	13.67	22.77	46.84	45.58	6.93	4.11	189.36
1948	7.05	11.32	7.22	6.33	5.89	12.37	18.95	14.83	41.88	15.85	3.71	3.99	149.39
1949	5.78	8.38	7.11	6.11	4.83	12.10	11.06	4.60	31.24	5.51	1.51	1.12	99.35
1950	4.94	7.88	4.62	4.34	6.13	6.92	6.29	4.02	6.35	6.63	5.97	7.24	71.38
1951	9.43	10.03	8.99	5.95	5.18	6.68	7.64	5.95	31.76	47.16	13.05	4.70	156.52
1952	11.32	8.99	6.29	5.77	5.91	8.73	34.29	46.68	60.37	10.95	6.51	1.49	207.30
1953	1.82	6.55	6.18	7.20	5.35	7.81	4.93	2.72	26.17	1.30	1.38	.70	72.11
1954	3.23	5.23	6.20	5.22	5.25	5.50	7.71	3.42	5.01	2.29	.55	.60	50.21
1955	1.42	1.57	4.67	4.17	4.31	5.16	6.54	.78	1.76	.85	.40	.56	32.19
1956	.69	4.42	6.19	4.75	4.27	7.31	1.86	2.70	7.82	1.89	1.67	1.55	45.12
1957	2.29	5.59	5.43	4.97	4.99	6.07	4.02	30.46	172.60	58.09	4.20	4.03	302.74
1958	4.97	10.37	8.49	6.08	5.26	5.61	9.20	40.25	25.25	10.35	3.81	1.92	131.56
1959	1.93	6.84	6.64	5.60	5.30	7.35	6.88	4.12	5.74	2.70	1.00	.93	55.02
1960	4.49	5.62	5.43	5.10	3.79	7.92	3.58	.71	.60	.55	.43	.81	39.02
1961	1.29	4.13	3.19	3.10	3.74	7.12	.32	.36	10.12	1.94	.88	9.49	45.67
1962	7.25	9.47	5.36	5.02	13.49	11.16	18.27	4.88	47.32	13.51	6.68	3.12	145.53
1963	1.83	6.11	7.06	3.08	8.47	11.36	5.56	8.52	154.40	8.33	1.32	4.46	220.50
1964	2.45	7.23	5.82	6.38	5.36	7.03	8.00	14.28	65.17	47.45	2.42	1.68	173.27
1965	1.46	3.43	2.70	2.98	2.48	4.62	12.31	9.97	103.30	65.47	10.16	14.18	233.06
1966	11.61	9.83	8.57	7.15	5.44	6.39	2.68	.62	1.11	.91	1.11	2.20	57.62
1967	2.09	7.30	5.59	4.34	4.14	7.44	2.96	5.96	116.70	59.17	3.36	3.54	222.59
1968	3.24	8.66	5.81	4.36	8.21	7.74	4.94	2.14	24.64	2.42	9.89	4.83	87.88
1969	3.96	5.91	6.23	6.27	5.75	7.07	11.07	3.48	25.94	10.54	1.33	2.54	90.09
1970	4.27	7.61	6.30	3.80	4.90	6.60	5.06	9.16	29.61	5.56	1.00	2.58	86.45
1971	3.45	7.30	6.46	5.41	5.56	6.32	6.31	10.12	77.42	7.40	2.75	2.85	141.35
1972	12.52	9.06	3.24	4.33	7.57	11.55	6.63	3.60	39.97	2.33	4.73	1.94	107.47
1973	5.05	8.43	6.16	4.80	5.72	12.82	8.36	27.89	12.17	7.89	2.32	18.91	120.52
1974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG	4.95	6.89	5.96	5.00	5.16	7.82	9.02	12.69	43.71	15.17	4.37	4.12	124.86



## GREYBULL RIVER AT BASIN

## SUMMATION OF MONTHLY DEPLETIONS STA 6-2775

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1931	-.10	-.17	.04	.24	-.07	.15	.23	4.68	6.72	.68	.51	.35	13.25
1932	-.10	-.17	.04	.22	-.17	.15	.23	2.68	8.72	.68	.51	.25	13.05
1933	-.10	-.06	-.06	.22	-.17	.15	.23	2.68	8.72	.68	.51	.25	13.05
1934	-.10	-.06	-.06	.22	-.17	.15	2.23	.68	.72	.68	.51	.25	5.05
1935	-.10	-.06	-.06	.22	-.17	.15	.23	.58	10.72	.68	.51	.25	12.95
1936	.00	-.06	-.06	.22	-.17	.15	.23	.58	10.72	.68	.41	.25	12.95
1937	.00	-.06	-.06	.22	-.17	.15	.13	.68	10.62	.68	.41	.25	12.85
1938	.00	-.06	-.06	.22	-.17	.15	.13	.68	5.62	5.78	.41	.25	12.95
1939	.00	-.06	.04	.12	-.07	.15	4.13	3.68	3.62	.68	.41	.25	12.95
1940	.00	-.06	.04	.12	-.07	.15	.13	-14.32	.62	.78	.41	.25	-11.95
1941	.00	.04	-.06	.22	-.07	.15	.03	.58	.62	.68	.51	.25	2.95
1942	.00	.04	-.06	.22	-.17	.05	.03	.58	.72	.58	.51	.25	2.75
1943	.10	.04	-.06	.22	-.07	.05	.03	.58	.62	.58	.51	.25	2.85
1944	.10	.04	-.06	.12	-.07	.05	.03	.58	.72	.58	.51	.25	2.85
1945	.00	-.06	-.06	.12	-.07	.05	.03	.68	.72	.68	.41	.35	2.85
1946	.10	-.06	-.06	.12	-.07	.05	.03	.68	.62	.58	.41	.35	2.75
1947	.10	-.06	-.06	.12	-.07	.05	.03	.68	.72	.58	.51	.35	2.95
1948	.00	.04	-.06	.12	-.07	-.05	.03	.78	.62	.68	.51	.35	3.05
1949	.00	.04	-.06	.12	-.07	-.05	.03	.78	.72	.68	.51	.35	3.05
1950	.10	.04	-.06	.12	-.07	-.05	.03	.78	.62	.68	.51	.35	3.05
1951	.10	.04	-.06	.12	-.07	-.05	.13	.78	.62	.58	.61	.35	3.15
1952	.10	.04	-.06	.12	-.07	.05	.13	.58	.62	.68	.61	.35	3.15
1953	.10	.04	-.06	.12	-.07	.05	.13	.58	.62	.58	.61	.35	3.05
1954	.10	.14	-.06	.12	-.17	.05	.13	.68	.62	.58	.71	.35	3.25
1955	.10	.04	-.06	.02	-.07	.05	.13	.68	.52	.68	.71	.35	3.15
1956	.10	.04	-.06	.12	-.07	.05	.03	.68	.62	.58	.71	.35	3.15
1957	.10	.04	-.06	.02	-.07	.05	.13	.58	.62	.58	.71	.45	3.15
1958	.10	.04	-.06	.02	-.07	.05	.13	.68	.42	.68	.71	.45	3.15
1959	.20	.14	-.06	.02	-.07	-.05	.13	.68	.42	.68	.61	.45	3.15
1960	.20	.14	-.06	.02	-.07	.05	.13	.68	.42	.68	.61	.45	3.25
1961	.20	.14	-.06	.02	-.07	.05	.13	.58	.42	.58	.51	.45	2.95
1962	.30	.04	-.06	.02	-.07	-.05	.13	.58	.32	.68	.51	.45	2.85
1963	.30	.04	-.06	.02	-.07	-.05	.13	.58	.32	.68	.51	.35	2.75
1964	.20	.04	.04	.02	-.07	.05	.13	.58	.32	.58	.51	.35	2.75
1965	.30	.04	.04	.02	-.07	.05	.13	.58	.32	.48	.41	.35	2.65
1966	.20	.04	.04	.02	.04	.05	.13	.58	.32	.48	.41	.35	2.65
1967	.20	.04	.04	.12	.04	.15	.13	.48	.32	.48	.31	.35	2.65
1968	.10	.04	.04	.02	.04	.05	.23	.58	.32	.48	.31	.35	2.55
1969	.10	.04	.04	.02	-.07	.05	.13	.48	.32	.48	.31	.35	2.25
1970	.10	.04	.04	.02	.04	.05	.23	.58	.32	.38	.31	.25	2.35
1971	.10	.04	.04	.02	.04	.05	.13	.48	.32	.38	.31	.25	2.15
1972	.08	.03	.03	.01	.03	.04	.10	.44	.26	.29	.24	.20	1.75
1973	.06	.02	.02	.01	.02	.03	.08	.13	.20	.27	.23	.15	1.21
1974	.04	.01	.02	.01	.01	.02	.05	.08	.13	.18	.15	.10	.81
1975	.02	.01	.01	.00	.01	.01	.03	.04	.07	.09	.08	.05	.41



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000AF												
1931	19.50	10.57	7.95	7.17	5.62	9.65	5.25	39.62	66.08	.10	.27	.67	172.43
1932	2.26	2.03	1.80	2.25	4.77	13.25	6.67	34.62	64.48	8.24	.39	.32	141.06
1933	4.59	7.51	4.64	3.48	3.50	6.00	21.87	28.12	73.98	.03	1.82	0.00	155.52
1934	.20	4.76	6.21	5.32	3.78	1.11	3.15	1.96	0.00	0.00	0.00	0.00	26.48
1935	.17	1.00	6.81	4.71	4.76	5.14	4.50	5.68	96.48	13.85	0.00	.21	143.30
1936	.43	6.91	6.52	5.02	4.77	7.23	8.40	.18	2.11	1.93	7.27	.35	51.10
1937	1.10	7.87	7.42	4.22	3.72	8.77	15.34	10.25	48.14	20.81	.36	.54	128.52
1938	1.32	4.68	7.11	6.04	4.62	5.46	4.48	9.71	22.95	24.27	.59	1.26	92.47
1939	2.09	7.74	6.99	6.14	4.97	11.45	5.71	2.05	2.25	0.00	0.00	0.00	49.37
1940	.18	.73	5.59	3.94	4.42	5.37	2.90	14.74	4.57	1.20	.04	1.13	44.80
1941	3.87	6.50	7.13	4.50	3.90	5.86	11.14	17.41	60.98	15.94	55.60	40.27	233.08
1942	30.36	17.58	8.65	4.54	6.43	10.21	17.58	43.62	58.73	12.28	2.16	3.83	216.00
1943	6.32	8.15	5.95	6.32	7.01	15.34	26.84	17.15	57.85	42.27	6.19	3.32	202.69
1944	4.13	9.19	7.99	6.35	6.30	7.79	13.26	45.31	81.72	29.68	2.32	1.00	215.02
1945	4.26	7.62	6.18	6.48	6.06	11.37	8.79	6.30	68.02	48.06	11.86	9.08	194.05
1946	7.93	9.96	9.14	8.20	7.00	10.90	12.67	3.21	16.64	6.50	2.06	13.47	107.66
1947	14.42	11.13	6.94	3.72	5.10	8.08	13.64	22.10	46.12	45.00	6.42	3.76	186.41
1948	7.05	11.29	7.28	6.22	5.96	12.42	18.92	14.05	41.26	15.17	3.20	3.64	146.44
1949	5.78	8.35	7.17	6.00	4.90	12.15	11.03	3.82	30.52	4.83	1.00	.77	96.30
1950	4.84	7.85	4.68	4.28	6.20	6.97	6.26	3.24	5.73	5.95	5.46	6.89	68.33
1951	9.33	10.00	9.05	5.84	5.25	6.73	7.51	5.17	31.14	46.58	12.44	4.35	153.37
1952	11.22	8.96	6.35	5.66	5.98	8.68	34.16	46.10	59.75	10.27	5.90	1.14	204.15
1953	1.72	6.52	6.24	7.09	5.42	7.76	4.80	2.14	25.55	.72	.77	.35	69.06
1954	3.13	5.10	6.26	5.11	5.42	5.45	7.58	2.74	4.39	1.71	0.00	.25	47.12
1955	1.32	1.54	4.73	4.16	4.38	5.11	6.41	.10	1.24	.17	0.00	.21	29.35
1956	.59	4.39	6.25	4.64	4.34	7.26	1.83	2.02	7.20	1.31	.96	1.20	41.97
1957	2.19	5.56	5.49	4.96	5.06	6.02	3.89	29.88	171.98	57.51	3.49	3.58	299.59
1958	4.87	10.34	8.55	6.07	5.33	5.56	9.07	39.57	24.83	9.67	3.10	1.47	128.41
1959	1.73	6.71	6.70	5.59	5.37	7.40	6.75	3.44	5.32	2.02	.39	.48	51.87
1960	4.29	5.49	5.49	5.04	3.86	7.87	3.45	.03	.17	0.00	0.00	.36	36.08
1961	1.09	4.00	3.25	3.05	3.81	7.07	.19	0.00	9.70	1.36	.37	9.04	42.95
1962	6.95	9.44	5.42	5.01	13.56	11.21	18.14	4.30	47.00	12.83	6.17	2.67	142.68
1963	1.53	6.08	7.12	3.07	8.54	11.41	5.43	7.94	154.08	7.65	.81	4.11	217.75
1964	2.25	7.20	5.78	6.23	5.43	6.98	7.87	13.70	64.85	46.87	1.91	1.33	170.52
1965	1.16	3.40	2.66	2.97	2.55	4.57	12.18	9.39	102.98	64.99	9.75	13.83	230.41
1966	11.41	9.80	8.53	7.14	5.41	6.34	2.55	.04	.79	.43	.70	1.85	54.97
1967	1.89	7.27	5.55	4.23	4.11	7.29	2.83	5.48	116.38	58.69	3.05	3.19	219.94
1968	3.14	8.63	5.77	5.35	8.18	7.69	4.71	1.56	24.32	1.94	9.58	4.48	85.33
1969	3.86	5.88	6.19	6.26	5.82	7.02	10.94	3.00	25.62	10.06	1.02	2.19	87.84
1970	4.17	7.58	6.26	3.74	4.87	6.55	4.83	8.58	29.29	5.18	.69	2.33	84.10
1971	3.35	7.27	6.42	5.40	5.53	6.27	6.18	9.64	77.10	7.02	2.44	2.60	139.20
1972	12.44	9.03	3.21	4.32	7.54	11.51	6.53	3.16	39.71	2.04	4.50	1.74	105.72
1973	4.99	8.41	6.14	4.75	5.70	12.79	8.28	27.76	11.98	7.62	2.09	18.76	119.31
1974	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1975	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVG	4.88	6.88	5.99	4.91	5.22	7.76	8.77	12.19	41.86	14.50	3.94	3.82	120.73



*Shoshone River*  
*at Byron*  
*6-2850*



## HISTORICAL FLOW

STA 6-2650

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
								UNITS - 1000 AF					
1929	0.00	0.00	0.00	20.00	17.70	56.90	27.50	63.30	233.00	162.00	31.80	35.20	647.40
1930	33.60	36.20	36.10	27.40	26.50	23.70	23.30	38.20	249.00	137.00	82.40	58.00	771.60
1931	58.40	40.90	34.70	26.70	19.00	7.01	7.26	17.70	179.00	26.30	19.20	17.40	453.57
1932	12.10	9.10	20.00	22.40	19.70	22.40	19.60	70.70	328.00	183.00	56.40	137.00	900.40
1933	20.10	24.90	17.80	21.50	15.60	15.90	14.50	26.90	215.00	78.70	114.00	25.50	590.40
1934	29.90	19.33	19.82	18.55	15.37	15.36	16.38	29.12	66.76	37.83	35.36	29.28	333.06
1935	22.81	17.66	18.70	15.90	17.59	18.18	18.53	26.83	225.30	152.50	32.14	26.58	592.72
1936	41.73	22.54	21.56	21.46	17.73	23.88	34.50	97.06	301.60	69.15	34.24	24.81	710.26
1937	29.22	24.49	21.86	10.19	9.29	15.63	31.46	71.16	211.70	107.00	31.18	44.17	607.35
1938	30.09	19.40	19.06	17.83	17.36	18.77	21.96	53.45	266.90	213.20	53.31	35.29	766.62
1939	34.79	22.45	28.47	30.41	21.03	24.58	21.47	61.08	185.30	107.00	89.60	55.95	682.13
1940	62.51	109.90	46.96	23.67	19.46	19.16	21.22	25.49	33.60	32.33	45.44	33.86	473.60
1941	60.85	93.81	107.00	27.08	20.62	20.37	14.29	30.93	33.24	33.60	38.76	42.46	523.05
1942	58.01	52.61	50.22	33.95	24.83	24.73	17.89	88.50	159.50	112.00	34.79	39.30	736.33
1943	26.37	33.41	43.79	55.25	45.92	49.00	35.72	61.26	384.60	351.80	69.47	39.23	1195.82
1944	30.74	40.48	39.48	37.24	38.81	44.26	34.52	46.25	139.10	151.20	30.10	32.12	664.30
1945	25.33	37.41	31.09	39.96	35.68	39.45	30.79	80.73	93.83	141.10	47.90	41.54	644.81
1946	27.90	39.12	40.71	36.79	34.82	46.57	31.97	45.95	176.30	93.15	36.18	30.95	640.41
1947	31.45	36.55	40.98	39.33	33.18	39.88	31.03	37.32	174.50	226.60	52.69	42.43	785.98
1948	27.80	41.06	42.76	43.07	42.96	43.37	37.79	26.93	321.10	94.44	39.67	37.14	798.09
1949	31.21	40.34	52.45	55.26	50.21	53.94	28.10	38.73	125.90	73.84	36.60	35.16	621.74
1950	47.10	50.60	54.17	57.81	47.67	46.98	41.01	32.04	51.44	176.90	61.62	50.60	717.94
1951	57.83	65.73	65.00	57.00	38.13	49.78	84.14	131.70	174.60	177.90	91.97	52.50	1046.28
1952	62.27	67.04	64.40	60.34	53.66	57.56	53.30	109.80	82.92	49.09	60.00	54.69	775.07
1953	58.29	49.87	45.36	43.34	30.38	25.43	22.45	29.73	29.87	38.85	46.10	35.53	455.20
1954	37.17	50.07	51.80	34.05	27.77	29.25	31.78	39.47	60.78	142.90	52.68	42.70	600.42
1955	50.20	32.75	37.29	41.23	27.06	30.94	32.44	35.00	32.44	29.66	30.47	23.65	403.13
1956	25.75	27.43	34.46	36.13	42.95	44.50	46.27	88.03	201.00	98.28	41.00	29.78	715.58
1957	40.64	63.25	58.42	52.96	37.20	35.96	45.20	64.02	207.30	207.30	37.25	37.62	887.12
1958	48.35	60.96	54.28	51.96	52.43	56.79	42.50	26.58	113.40	48.12	159.60	101.40	816.37
1959	55.15	43.78	36.16	16.20	7.98	12.88	14.16	22.58	29.16	24.07	38.02	33.58	333.72
1960	56.57	52.03	57.16	47.50	41.20	31.88	19.41	17.95	22.25	21.13	31.88	26.12	425.08
1961	27.89	19.84	24.44	22.56	18.88	17.18	12.86	18.57	22.09	27.77	33.56	60.08	305.72
1962	44.04	59.60	58.28	52.28	54.28	57.86	44.19	33.53	134.00	159.10	47.79	42.65	787.60
1963	42.98	48.21	41.50	43.50	39.16	42.65	40.76	38.88	208.80	112.70	35.10	37.02	731.26
1964	40.98	26.92	36.87	37.41	32.79	49.07	49.27	33.63	61.18	247.70	40.79	37.36	693.97
1965	52.37	41.86	41.06	36.99	59.85	66.44	55.81	36.70	185.30	262.50	62.35	45.98	947.21
1966	53.83	42.41	42.82	42.90	37.90	37.37	32.29	29.00	41.79	47.90	33.81	41.49	483.51
1967	54.20	41.52	37.56	38.19	41.99	61.66	45.30	35.75	207.40	278.40	37.08	36.98	916.03
1968	52.49	64.48	58.81	51.57	41.19	51.73	46.44	24.57	42.71	25.50	65.83	53.67	578.99
1969	61.27	68.17	71.82	61.70	44.83	51.77	52.66	33.98	84.08	80.49	36.96	48.49	696.22
1970	56.48	48.26	43.72	41.70	38.64	45.04	42.06	39.04	171.80	145.30	41.62	61.39	775.05
1971	63.29	54.28	42.71	42.40	38.57	52.16	48.00	109.50	163.60	191.00	46.96	54.97	907.44
1972	76.94	54.15	66.06	47.26	61.19	61.89	96.45	42.96	16.60	81.78	65.15	48.51	718.94
1973	66.77	55.55	58.28	65.47	63.25	69.67	59.61	32.19	49.52	47.06	39.14	77.48	683.99
1974	45.46	42.77	42.77	40.34	39.22	42.99	31.32	33.71	273.80	200.60	50.62	40.47	884.07
1975	56.66	43.29	38.10	38.18	33.08	36.49	53.75	117.40	93.62	224.40	62.59	49.49	847.05
AVG	43.19	43.33	42.49	37.98	33.93	38.06	36.24	48.81	146.06	121.92	50.24	44.42	686.65



## SHOSHONE RIVER AT BYRON

STA 6-2H50

## SUMMATION OF MONTHLY DEPLETIONS

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	-46.60	-60.40	-62.40	-38.60	-34.00	1.10	5.10	38.30	207.40	122.00	-7.50	.10	124.50
1930	-8.80	1.30	-80	-7.20	-5.20	-11.10	15.20	13.20	223.40	97.00	43.10	22.90	383.00
1931	11.30	-20.50	-29.20	-32.90	-34.20	-27.80	-15.10	-7.30	153.40	-13.70	-20.10	-17.70	-53.80
1932	-11.90	-5.00	4.60	9.30	7.40	9.10	11.50	45.70	259.90	79.70	17.10	101.90	529.30
1933	-25.00	-34.10	-42.60	-13.10	-16.10	-18.90	6.40	1.90	132.90	38.70	74.70	-9.60	-95.20
1934	-14.70	-38.60	-37.50	-16.10	-16.30	2.10	8.30	4.10	41.20	-2.20	-3.90	-5.80	-79.40
1935	-1.20	3.50	3.30	2.80	5.30	4.90	10.50	1.80	175.60	18.20	-7.10	-8.50	209.10
1936	-2.90	-35.90	-38.30	-13.10	-14.00	-10.90	12.20	72.00	94.80	29.20	-5.00	-10.30	77.80
1937	-14.80	-10.40	-15.00	-24.40	-22.40	-19.20	9.20	46.10	186.10	67.10	-8.10	9.10	203.30
1938	-13.50	-38.50	-17.80	-16.80	-14.30	-16.10	-30	28.40	148.10	78.50	14.00	.20	151.90
1939	-11.30	-38.00	-33.40	-27.70	-30.10	-31.30	-80	36.00	159.70	67.10	50.30	20.90	161.40
1940	18.90	52.00	-12.90	-10.90	-12.20	5.80	13.30	.40	8.00	-7.60	6.10	-1.20	59.70
1941	36.90	58.90	70.10	-7.50	-11.00	-14.50	6.40	5.80	7.60	-6.30	-60	7.40	153.20
1942	11.00	-7.30	-14.20	-27.10	-28.80	-33.60	21.90	63.40	133.90	34.00	-4.60	4.20	152.80
1943	-13.20	-25.00	-16.10	-80	14.30	14.20	.70	36.20	171.10	71.00	30.10	4.10	286.60
1944	-16.20	-20.90	-23.90	-22.30	-14.30	-12.50	1.00	21.20	113.50	111.30	-9.30	-3.00	124.60
1945	-16.20	2.50	-5.80	5.40	23.50	-26.20	22.90	55.70	68.20	71.40	8.50	6.40	268.70
1946	-18.60	-21.80	-22.20	-22.80	-17.80	-10.20	9.80	20.90	150.70	53.20	-4.20	-4.20	113.80
1947	-12.00	-20.80	-18.40	4.70	1.60	5.10	8.90	12.30	148.90	87.00	13.20	7.30	237.90
1948	-19.10	-19.80	-20.10	-16.60	-10.10	-13.90	4.40	1.90	211.70	54.50	.30	2.00	175.20
1949	-12.30	5.50	15.60	20.60	18.70	19.20	6.00	13.70	66.00	33.90	-2.80	.00	184.10
1950	4.20	-7.70	17.30	23.20	16.20	12.20	18.90	7.00	25.80	45.40	22.20	15.40	200.10
1951	10.90	3.90	.60	-4.10	-16.30	-9.50	48.20	106.70	48.70	-63.60	52.60	17.30	195.40
1952	14.30	4.20	-50	-1.30	-80	-1.20	17.40	84.80	-48.30	9.20	20.60	19.50	117.90
1953	13.70	-8.50	-13.50	-12.80	-1.10	2.20	14.70	4.70	4.30	-1.00	6.70	.30	9.70
1954	-5.80	-6.80	14.90	-60	-3.70	-5.50	24.00	14.40	35.20	53.50	13.30	7.50	140.40
1955	6.20	-25.10	.40	6.60	-4.40	17.70	24.70	9.90	6.90	-10.10	-8.90	-11.60	12.30
1956	1.70	13.40	19.10	23.00	21.70	9.80	24.20	62.90	-76.20	23.90	1.60	-5.50	119.60
1957	-4.40	-4.40	-1.90	-3.70	5.70	1.30	23.10	38.90	45.00	73.90	-2.20	2.30	182.40
1958	1.30	1.10	-7.50	-6.70	.90	1.10	20.40	1.50	87.90	8.30	120.20	66.10	294.60
1959	13.10	8.90	-60	-18.50	-23.60	-21.80	-7.90	-2.50	3.70	-15.80	-1.40	-1.70	-68.10
1960	11.40	-7.40	-4.10	-10.20	-9.40	-18.70	11.70	-7.10	-3.20	-18.70	-7.50	-9.20	-35.00
1961	3.80	5.70	9.20	9.40	6.70	4.00	5.10	-6.50	-3.40	-12.10	-5.80	24.80	40.90
1962	20.00	45.50	21.50	17.60	22.70	23.20	22.10	8.50	57.00	60.90	8.40	7.40	314.80
1963	-3.10	-11.80	-19.80	-14.70	-11.40	8.00	18.70	13.90	77.70	48.20	-4.30	1.80	103.20
1964	13.60	-18.60	-9.80	-7.20	-14.20	12.10	28.40	-2.20	24.30	38.00	-14.00	-6.10	44.30
1965	25.00	-6.60	-8.50	-10.50	13.40	26.00	12.50	.90	-11.00	-40	7.60	2.50	50.90
1966	3.90	-24.60	-27.00	-24.90	6.40	2.70	22.60	-6.80	4.90	-7.00	-20.90	-2.00	-72.70
1967	26.90	3.70	-1.30	1.40	-12.50	34.20	-2.60	.00	53.00	53.80	-17.60	-6.50	128.50
1968	25.20	6.60	2.00	-3.20	9.70	26.70	36.70	-11.20	5.80	-29.40	11.20	10.20	90.30
1969	17.20	1.50	2.00	-4.00	-10.10	12.60	25.90	-1.80	47.20	25.60	-17.70	5.00	103.40
1970	29.20	2.30	-3.30	-3.30	-16.80	19.70	32.30	3.30	-41.60	25.20	-13.00	17.90	51.90
1971	36.00	-6.00	-17.60	-15.90	-19.00	24.80	18.40	73.80	-100.10	-21.30	-7.70	11.50	-23.10
1972	21.90	-12.80	-3.70	-20.50	3.60	4.60	43.00	7.20	-90.60	1.40	10.30	4.90	-30.70
1973	19.40	-11.40	-11.50	-2.30	38.90	44.30	46.70	-3.70	12.20	-8.40	-15.90	33.80	142.10
1974	27.40	16.40	15.40	15.00	3.50	13.70	-20.20	-2.30	-30.30	27.70	-4.60	-3.30	58.40
1975	29.30	-15.30	-21.40	-19.40	10.70	11.10	40.60	81.30	-55.40	-54.50	7.20	5.60	19.80



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	46.60	60.40	62.40	58.60	51.70	55.40	22.40	25.00	25.60	40.00	39.30	35.10	522.90
1930	42.60	34.90	36.90	34.60	31.70	34.80	8.10	25.00	25.60	40.00	39.30	35.10	388.60
1931	47.10	61.40	63.90	59.60	53.20	34.81	22.36	25.00	25.60	40.00	39.30	35.10	507.37
1932	24.00	14.10	15.40	13.10	12.30	13.30	8.10	25.00	68.10	103.30	39.30	35.10	371.10
1933	45.10	59.00	60.40	34.60	31.70	34.80	8.10	25.00	82.10	40.00	39.30	35.10	495.20
1934	44.60	57.93	57.32	34.65	31.67	13.26	8.08	25.02	25.56	40.03	39.26	35.08	412.46
1935	24.01	14.16	15.40	13.10	12.29	13.28	8.03	25.03	49.70	134.30	39.24	35.08	383.62
1936	44.63	58.44	59.86	34.56	31.73	34.78	22.30	25.06	206.80	39.95	39.24	35.11	632.46
1937	44.02	34.85	36.86	34.59	31.69	34.83	22.26	25.06	25.60	39.90	39.28	35.07	404.05
1938	43.59	57.90	36.86	34.63	31.66	34.87	22.26	25.05	118.80	134.70	39.31	35.09	614.72
1939	46.05	60.45	61.87	58.11	51.13	55.88	22.27	25.08	25.60	39.90	39.30	35.05	520.73
1940	43.61	57.90	59.86	34.57	31.66	13.36	7.92	25.09	25.60	39.93	39.34	35.06	413.90
1941	23.99	34.91	34.90	34.58	31.62	34.87	7.89	25.13	25.64	39.90	39.36	35.06	369.85
1942	47.01	59.91	64.42	61.05	53.63	58.33	35.99	25.10	25.60	78.00	39.39	35.10	583.53
1943	39.57	58.41	59.89	56.05	31.62	34.80	35.02	25.06	213.50	280.80	39.37	35.13	909.22
1944	46.94	61.36	63.38	59.54	53.11	56.76	33.52	25.05	25.60	39.90	39.40	35.12	539.70
1945	41.53	34.91	36.89	34.56	12.18	13.25	7.89	25.03	25.63	69.70	39.40	35.14	376.11
1946	46.50	60.92	42.91	59.59	52.62	56.77	22.17	25.05	25.60	39.95	39.38	35.15	526.61
1947	43.45	57.39	59.38	34.63	31.58	34.78	22.13	25.02	25.60	139.60	39.39	35.13	548.08
1948	46.90	60.86	62.86	59.67	53.06	57.27	33.39	25.03	109.40	39.94	39.37	35.14	622.89
1949	43.51	34.84	36.85	34.66	31.51	34.74	22.10	25.03	59.90	39.94	39.40	35.16	437.64
1950	42.90	58.30	36.87	34.61	31.47	34.78	22.11	25.04	25.64	131.50	39.42	35.20	517.84
1951	46.93	61.83	64.40	61.10	54.43	59.28	35.94	25.00	125.90	241.50	39.37	35.20	850.88
1952	47.97	62.84	64.90	61.64	54.46	58.76	35.90	25.00	131.22	39.89	39.40	35.19	657.17
1953	44.59	58.37	58.86	56.14	31.47	23.23	7.75	25.03	25.57	39.85	39.40	35.23	445.50
1954	42.97	56.87	36.90	34.65	31.47	34.75	7.78	25.07	25.58	89.40	39.38	35.20	466.02
1955	44.00	57.85	36.89	34.63	31.46	13.24	7.74	25.10	25.54	39.76	39.37	35.25	390.83
1956	24.05	14.03	15.36	13.13	21.25	34.70	22.07	25.13	277.20	74.38	39.40	35.28	595.98
1957	45.04	58.85	60.32	56.66	31.50	34.66	22.10	25.12	162.30	133.40	39.45	35.32	704.72
1958	47.05	59.86	61.78	58.66	51.53	55.69	22.10	25.08	25.50	39.82	39.40	35.30	521.77
1959	42.05	34.88	36.76	34.70	31.58	34.68	22.06	25.08	25.46	39.87	39.42	35.28	401.82
1960	45.17	59.43	61.26	57.70	50.60	13.18	7.71	25.05	25.45	39.83	39.36	35.32	460.08
1961	24.09	14.14	15.24	13.16	12.18	13.18	7.76	25.07	25.49	39.87	39.36	35.28	264.82
1962	24.04	14.10	36.78	34.68	31.58	34.66	22.09	25.03	77.00	98.20	39.39	35.25	472.80
1963	46.08	60.01	61.30	58.20	50.56	34.65	22.06	24.98	131.10	64.50	39.40	35.22	628.06
1964	27.38	45.52	46.67	44.61	46.99	36.97	20.87	35.83	36.88	209.70	54.79	43.46	649.67
1965	27.37	48.46	49.56	47.49	46.45	40.44	43.31	35.80	196.30	262.90	54.75	43.48	896.31
1966	49.93	67.01	69.82	67.80	31.50	34.67	9.69	35.80	36.89	54.90	54.71	43.49	556.21
1967	27.30	37.82	38.86	36.79	54.49	27.46	51.90	35.75	154.40	224.60	54.68	43.48	787.53
1968	27.29	57.88	56.81	54.71	31.49	25.03	9.74	35.77	36.91	54.90	54.63	43.47	488.69
1969	44.07	66.87	69.82	65.70	54.83	39.17	26.76	35.78	36.88	54.89	54.66	43.49	592.82
1970	27.28	45.46	47.02	45.00	55.44	25.34	9.76	35.74	213.40	120.10	54.62	43.49	723.15
1971	27.29	60.28	60.31	58.30	57.57	27.36	29.60	35.70	263.70	212.30	54.66	43.47	930.54
1972	55.04	66.95	69.76	67.76	57.59	57.29	53.45	35.76	107.20	80.38	54.85	43.61	749.64
1973	47.37	66.95	69.78	67.77	44.35	25.37	12.91	35.89	37.32	55.46	55.04	43.68	541.89
1974	18.06	26.37	27.37	25.34	35.72	29.29	15.52	36.01	304.10	172.90	55.22	43.77	825.67
1975	27.36	58.59	59.50	57.58	22.38	25.39	13.15	36.10	149.02	278.90	55.39	43.89	827.25
AVG	39.32	50.10	50.29	45.27	38.04	34.65	21.28	27.80	83.47	93.48	43.31	37.31	564.31



*Powder River  
at Arvada  
6-3170*



## HISTORICAL FLOW

STA 6-3170

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1929	8.18	10.40	0.00	0.00	0.00	143.00	82.70	120.00	77.40	30.90	8.79	4.78	486.15
1930	9.90	0.00	0.00	0.00	0.00	34.20	31.50	36.00	13.40	10.60	31.90	6.07	173.57
1931	16.20	6.49	5.88	6.15	7.78	15.30	13.40	41.50	28.60	9.65	12.20	2.67	165.82
1932	3.91	5.86	3.69	3.38	24.90	38.40	24.70	93.50	70.20	9.78	0.00	0.00	278.32
1933	2.61	8.27	4.00	.92	.56	25.30	38.40	126.00	57.50	2.76	29.90	18.50	314.72
1934	7.29	10.60	0.00	0.00	0.00	0.00	23.36	7.14	17.87	16.14	2.10	4.02	88.52
1935	3.97	4.96	2.46	1.84	11.22	15.65	13.41	29.23	66.69	8.24	7.48	.84	165.99
1936	.38	.68	6.32	3.35	11.59	54.15	7.93	3.15	39.54	18.99	.40	0.00	146.47
1937	4.25	8.01	4.55	1.60	2.78	32.33	30.67	23.14	66.41	104.70	3.14	11.21	292.79
1938	11.31	4.30	4.30	5.84	6.94	21.72	19.10	53.77	25.99	31.42	1.27	4.48	190.44
1939	1.97	4.97	4.46	7.88	4.47	30.75	12.20	24.11	23.86	1.52	.01	.34	120.55
1940	4.88	4.56	7.03	3.85	9.17	19.35	21.24	16.30	23.77	7.30	.07	1.62	119.14
1941	25.49	4.06	5.76	5.36	7.10	12.08	65.87	81.33	26.52	50.52	52.92	13.55	350.56
1942	16.91	13.36	11.50	4.98	7.18	17.35	31.58	47.31	18.45	4.95	8.48	.57	182.62
1943	6.41	7.55	5.65	6.71	9.39	39.74	42.69	40.13	58.01	11.38	.27	.35	228.28
1944	3.17	5.21	4.26	2.59	3.80	9.85	34.28	99.09	93.96	24.36	3.62	.19	284.38
1945	6.48	7.15	6.94	6.03	8.89	32.62	39.59	28.39	65.31	25.19	11.05	6.65	254.29
1946	9.50	10.54	6.13	9.10	12.47	19.56	24.58	39.31	36.27	22.35	.28	9.44	189.53
1947	8.91	9.53	7.60	5.48	10.24	58.38	19.91	86.38	46.08	20.76	.45	1.11	274.83
1948	5.29	8.56	6.63	5.04	12.77	53.01	14.87	32.60	77.92	24.54	4.54	3.09	248.86
1949	8.02	7.56	5.22	3.62	4.29	54.14	19.51	33.80	39.66	7.78	.01	.37	183.97
1950	5.57	5.32	1.41	1.80	3.51	13.61	22.48	53.88	19.45	3.90	.49	.28	131.70
1951	6.26	6.51	2.39	3.88	4.85	14.77	10.07	19.16	6.02	1.73	4.11	18.02	97.77
1952	7.19	6.19	4.59	2.16	5.76	15.21	22.46	73.86	15.54	11.11	2.28	.16	166.51
1953	1.57	3.95	2.95	4.85	6.59	18.55	10.71	10.15	37.42	4.26	13.63	.01	114.68
1954	.19	2.92	3.46	3.43	11.94	14.35	16.37	16.30	1.82	4.58	8.35	0.00	83.71
1955	.54	3.57	2.09	2.17	3.57	43.99	30.75	30.55	43.46	9.23	11.83	.57	182.32
1956	1.47	2.42	12.49	5.78	7.20	37.34	15.18	21.69	15.47	6.04	3.99	.07	129.14
1957	.01	2.19	4.43	3.46	2.31	13.79	13.89	29.82	65.08	14.64	2.46	3.15	155.23
1958	5.99	7.90	6.80	5.18	4.93	12.58	16.14	29.95	22.25	28.27	4.01	.02	144.02
1959	1.21	4.96	4.09	3.75	3.91	22.05	11.07	30.18	24.77	12.27	.14	.32	118.71
1960	2.17	2.35	4.23	2.84	5.41	37.21	14.75	8.23	6.12	2.58	1.17	0.00	87.06
1961	0.00	1.68	1.84	2.31	3.23	8.86	5.89	15.97	6.04	3.60	.69	.76	50.87
1962	9.75	5.96	2.35	1.99	25.89	15.54	24.74	124.80	197.50	49.15	14.64	11.53	483.84
1963	23.39	10.33	4.69	7.28	15.05	14.12	14.08	34.81	54.61	10.76	1.58	10.95	205.65
1964	3.99	6.59	4.80	5.51	4.68	12.97	27.66	39.61	103.60	20.15	1.35	.10	231.01
1965	2.75	6.50	5.95	8.77	13.71	29.55	40.71	47.78	65.68	28.76	9.36	5.35	264.87
1966	8.71	7.87	5.14	4.54	5.91	21.09	16.31	18.49	7.42	2.00	0.00	7.05	104.53
1967	2.99	6.24	3.68	4.64	6.80	13.14	10.78	31.09	161.20	47.88	5.53	7.61	301.58
1968	8.60	9.20	4.68	4.58	7.91	21.79	13.71	45.19	127.90	20.91	12.14	11.35	287.96
1969	10.44	8.64	7.04	8.71	7.26	19.21	15.10	18.78	16.13	10.32	.31	.03	121.97
1970	3.33	6.56	4.51	5.63	9.36	16.79	12.60	67.95	50.31	12.20	.54	.30	190.08
1971	5.25	7.81	6.52	4.40	9.05	36.83	16.71	54.13	55.29	4.71	.16	1.18	202.04
1972	7.09	9.02	6.25	5.11	32.62	38.52	20.65	49.48	37.97	6.11	11.55	5.92	230.29
1973	9.63	8.74	4.69	5.45	7.31	19.97	39.40	79.45	27.62	25.46	5.30	19.28	252.31
1974	13.47	18.01	17.81	14.86	11.64	16.82	39.40	22.11	8.18	.97	2.11	.83	166.21
1975	5.78	8.27	5.84	4.75	4.84	15.92	20.98	41.35	101.70	28.82	4.28	1.20	243.73
AVG	6.65	6.65	5.21	4.50	8.10	27.05	23.70	44.19	47.91	17.32	6.40	4.17	201.86



## POWDER RIVER AT ARVADA

## SUMMATION OF MONTHLY DEPLETIONS STA 6-3170

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1929	.22	-.18	.14	.06	.77	1.72	2.20	4.44	4.52	2.58	1.30	.37	18.14
1930	.22	-.18	.14	.06	.77	1.72	2.20	4.44	4.52	2.58	1.30	.37	18.14
1931	.22	-.18	.14	.06	.77	1.72	2.20	4.44	4.52	2.48	1.30	.37	18.14
1932	.22	-.18	.14	.06	.77	1.42	1.70	3.84	3.92	2.28	1.20	.37	15.74
1933	.22	-.18	.14	.06	.77	1.42	1.70	3.84	3.92	2.28	1.30	.37	15.84
1934	.22	-.18	.14	.06	.77	.72	2.60	5.14	5.22	2.78	1.30	.37	19.14
1935	.22	-.18	.14	.06	.77	1.82	2.30	4.44	4.52	2.58	1.30	.37	18.34
1936	.22	-.18	.24	.06	.77	1.72	2.30	4.34	4.52	2.58	1.30	.37	18.24
1937	.22	-.18	.14	.06	.77	1.52	1.70	3.74	3.82	2.38	1.30	.37	15.84
1938	.32	-.18	.14	.06	.87	1.72	2.10	4.34	4.52	2.58	1.20	.37	18.04
1939	.32	-.18	.14	-.04	.77	1.72	2.10	4.24	4.52	2.48	1.10	.47	17.64
1940	.32	-.18	.24	.06	.77	1.62	2.00	4.24	4.42	2.48	1.20	.47	17.64
1941	.32	-.18	.14	-.04	.77	1.42	1.50	3.44	3.72	2.28	1.30	.37	15.04
1942	.32	-.18	.14	-.04	.77	1.72	1.90	4.04	4.12	2.48	1.30	.37	16.94
1943	.32	-.18	.24	-.04	.77	1.52	1.50	3.64	3.82	2.18	1.30	.47	15.54
1944	.32	-.08	.14	-.04	.77	1.42	1.30	3.34	3.42	2.08	1.30	.37	14.34
1945	.32	-.18	.24	-.04	.77	1.52	1.60	4.14	4.32	2.28	1.30	.37	16.64
1946	.32	-.08	.24	-.04	.77	1.42	1.50	3.64	3.72	2.28	1.20	.47	15.44
1947	.32	-.08	.24	-.04	.87	1.42	1.50	3.44	3.62	2.18	1.30	.47	15.24
1948	.32	-.18	.24	.06	.77	1.32	1.40	3.44	3.52	2.28	1.30	.47	14.94
1949	.32	-.18	.24	.06	.77	1.32	1.40	3.34	3.32	2.08	1.20	.47	14.34
1950	.32	-.08	.24	.06	.77	1.32	1.30	3.24	3.32	2.08	1.30	.47	14.34
1951	.32	-.08	.24	.06	.77	1.42	1.60	3.64	3.72	2.28	1.30	.47	15.74
1952	.32	-.08	.24	.06	.67	1.32	1.50	3.34	3.42	2.18	1.30	.37	14.64
1953	.32	.02	.24	.06	.67	1.42	1.60	3.44	3.32	2.08	1.30	.47	14.94
1954	.32	.02	.24	.06	.77	1.32	1.60	3.34	3.12	2.08	1.30	.47	14.64
1955	.32	.02	.24	-.04	.67	1.02	1.30	2.94	2.82	1.88	1.30	.47	12.94
1956	.22	.02	.24	-.04	.67	1.02	1.20	2.84	2.62	1.78	1.30	.47	12.34
1957	.22	.02	.24	-.04	.67	1.02	1.10	2.74	2.52	1.78	1.30	.47	12.04
1958	.22	.02	.24	-.04	.67	1.02	1.10	2.54	2.52	1.68	1.30	.57	11.84
1959	.22	.02	.24	.06	.67	1.12	1.30	2.84	2.82	1.78	1.30	.57	12.94
1960	.22	.02	.24	.06	.67	1.12	1.30	2.84	2.82	1.68	1.10	.57	12.64
1961	.22	.02	.24	.06	.67	1.02	1.10	2.64	2.72	1.68	1.10	.57	12.04
1962	.32	.02	.14	.06	.67	.92	.80	2.04	2.12	1.38	1.10	.67	10.24
1963	.22	.12	.14	.06	.67	.92	.70	2.14	2.22	1.28	1.00	.77	10.24
1964	.22	.12	.14	.06	.67	.82	.70	1.94	2.02	1.38	1.00	.67	9.74
1965	.32	.12	.14	.06	.67	.82	.60	1.84	1.92	1.28	1.00	.57	9.34
1966	.32	.12	.14	.16	.67	.72	.60	1.74	1.82	1.18	1.00	.57	9.04
1967	.32	.22	.04	.16	.67	.72	.50	1.54	1.62	1.18	1.00	.67	8.64
1968	.42	.22	.04	.06	.67	.62	.40	1.44	1.62	1.18	1.00	.57	8.24
1969	.22	.12	.14	.06	.57	.62	.40	1.34	1.52	1.08	1.00	.67	7.74
1970	.32	.12	.14	.06	.57	.62	.30	1.24	1.32	1.08	1.00	.67	7.44
1971	.32	.12	.14	.06	.57	.62	.30	1.34	1.32	1.08	1.00	.67	7.54
1972	.25	.10	.11	.05	.55	.59	.21	1.12	1.07	.86	.79	.54	6.22
1973	.19	.07	.08	.04	.06	.10	.17	.89	.81	.67	.62	.41	4.12
1974	.13	.05	.05	.02	.04	.07	.12	.53	.55	.48	.44	.27	2.75
1975	.07	.02	.03	.01	.02	.04	.05	.28	.29	.25	.23	.14	1.43



## 1975 DEPLETION LEVEL STA 6-3170

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL



Cheyenne River  
below Angostura Dam  
6-4015



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
	UNITS - 1000 AF												
1929	3.60	5.40	2.90	2.30	2.40	38.90	38.90	34.40	72.80	35.30	14.70	16.60	268.20
1930	8.00	7.00	3.30	1.90	15.20	15.70	13.80	15.60	9.20	1.40	23.60	12.40	127.10
1931	23.60	3.70	3.20	3.50	5.00	3.70	15.20	1.80	11.70	2.60	16.10	1.30	91.40
1932	4.20	2.30	2.30	2.00	3.00	29.50	26.70	35.60	13.60	12.50	15.20	3.60	150.50
1933	3.20	2.10	.90	.80	.30	13.00	22.50	103.90	16.70	7.00	23.20	18.00	211.60
1934	2.50	2.30	1.50	1.20	2.70	1.30	3.60	0.00	15.20	19.40	11.80	.70	62.20
1935	7.60	2.40	1.00	1.00	6.00	5.00	23.20	40.70	94.30	11.00	1.30	1.00	194.50
1936	1.10	2.20	1.40	1.40	1.00	11.40	5.90	.10	.70	.10	3.10	1.00	29.40
1937	.50	2.10	1.90	1.20	.60	3.80	9.80	.40	43.00	62.30	1.80	2.90	130.30
1938	1.00	1.20	1.30	3.20	2.80	9.60	4.20	5.10	19.40	33.00	12.00	21.00	113.80
1939	1.20	1.10	1.30	1.20	.40	4.90	1.70	20.40	11.40	7.90	6.40	3.70	61.60
1940	2.30	1.10	.80	1.20	3.00	8.70	17.90	6.60	11.60	2.10	.40	.70	56.40
1941	2.30	.90	.90	.70	1.40	1.80	19.70	6.70	36.70	32.30	15.40	3.90	122.70
1942	4.70	2.30	2.20	1.30	1.20	2.70	12.50	160.00	36.70	12.20	10.20	2.90	248.90
1943	3.50	2.90	.80	.60	11.80	32.80	9.80	9.80	43.60	2.80	1.80	1.10	121.30
1944	1.30	1.90	1.70	1.60	1.60	8.10	13.10	13.60	20.80	37.10	1.10	1.10	103.00
1945	1.20	1.60	2.00	1.30	1.40	14.20	5.10	3.10	29.50	26.00	15.40	2.90	103.70
1946	1.66	1.67	1.24	1.68	6.15	3.69	1.75	12.50	56.52	18.59	3.14	19.54	128.13
1947	9.63	3.37	1.79	1.65	9.39	9.03	6.43	3.34	53.83	28.83	4.25	1.31	132.85
1948	1.49	1.29	2.33	2.15	4.55	31.84	4.96	4.68	25.79	18.78	9.20	.84	107.94
1949	1.68	2.77	1.70	1.43	7.04	65.00	10.31	15.71	14.14	1.81	2.05	1.58	125.22
1950	.17	0.00	0.00	0.00	.03	.08	.06	1.12	2.82	7.57	5.47	1.96	19.28
1951	.69	.50	.28	.08	.07	.07	.06	.03	.06	.09	.07	.09	2.08
1952	.06	.06	1.28	2.67	10.09	10.47	11.18	5.38	3.42	9.19	9.26	9.43	72.49
1953	6.41	6.15	6.63	7.25	6.75	7.33	6.63	7.22	.12	5.94	6.65	2.33	69.45
1954	.13	.08	2.63	2.53	1.28	1.11	.06	.16	.09	.11	.10	.13	8.42
1955	.12	.10	.18	.10	.11	.13	6.87	12.61	16.20	4.77	3.45	3.19	47.84
1956	3.45	5.23	5.23	5.17	5.17	5.44	5.31	5.57	2.27	2.35	1.51	1.19	47.95
1957	.06	.07	.06	.07	.07	.08	.06	28.11	33.86	1.91	.10	.09	64.55
1958	.10	2.00	3.34	3.51	3.22	3.43	.07	.20	.08	9.01	12.36	.23	37.55
1959	3.78	2.91	3.35	3.45	3.55	.08	.08	.09	.21	.12	.17	.08	17.90
1960	.08	.08	.07	.06	.08	.12	.09	.09	.14	.10	.06	.04	1.02
1961	.05	.05	.05	.05	.05	.05	.06	.05	.06	.06	.04	.05	.60
1962	.08	.07	.07	.07	.07	.07	.05	48.16	166.70	74.41	2.95	.09	292.79
1963	.12	.09	.07	.06	.21	1.14	3.38	4.74	41.02	.11	.08	.09	51.10
1964	.10	.09	.07	.08	.07	.07	.06	.06	9.09	.84	.08	.06	10.66
1965	.06	.07	.06	.06	.06	.08	.06	4.38	55.89	10.91	.09	.08	71.81
1966	.09	.09	.07	.06	.11	7.16	4.34	.42	.08	.07	.08	.07	12.63
1967	.08	.09	.08	.09	.12	10.72	4.23	7.10	104.90	12.08	.11	.08	139.68
1968	.33	.10	.06	.06	.07	.08	.08	.06	18.34	.91	.10	.13	20.31
1969	.13	.10	.07	.07	.07	1.15	1.00	.39	.09	44.52	.13	.08	47.78
1970	.07	.08	.08	.07	.04	.05	.06	.73	.11	.07	.07	.07	1.51
1971	.08	.07	.07	.08	.06	.06	.21	85.12	57.60	.17	.04	.05	143.61
1972	.08	.08	.08	.07	.06	.10	.12	.14	1.50	.16	.08	.06	2.53
1973	.07	.08	.07	.08	.09	.09	.08	6.28	.12	.09	.08	.06	7.21
1974	.10	.10	.10	.08	11.72	4.68	6.38	.13	.09	.10	.10	.08	28.48
1975	.09	.09	.09	.08	.07	.10	.09	.07	.08	.09	.08	.06	.98
AVG	2.19	1.49	1.29	1.37	2.77	7.84	6.76	15.16	24.51	11.89	5.01	2.94	83.21



CHEYENNE RIVER BELOW ANGOSTURA RESERVOIR

SUMMATION OF MONTHLY DEPLEITIONS STA 6-4015

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1929	3.58	5.27	2.87	2.18	2.26	16.60	-.21	22.66	17.64	17.43	14.62	11.31	116.21
1930	1.68	.57	.37	.18	.16	1.40	-.21	22.66	13.54	1.13	23.52	12.51	77.51
1931	9.98	.57	.37	.18	.16	1.40	-.21	13.66	16.04	2.33	16.02	1.41	61.91
1932	4.18	2.17	2.27	1.88	2.86	20.30	-.21	22.66	17.64	12.23	15.12	3.71	104.81
1933	3.18	1.97	.87	.68	.16	9.60	-.21	22.66	17.64	6.73	23.12	13.51	99.91
1934	1.68	.57	.37	.18	.16	.70	-.41	11.86	19.54	19.13	11.72	.81	66.31
1935	7.58	2.27	.97	.88	5.86	2.10	-.21	22.66	17.64	10.73	1.22	1.11	72.81
1936	1.08	2.07	1.37	1.28	.86	10.80	1.89	11.96	5.04	-.17	3.02	1.11	40.31
1937	.48	1.97	1.87	1.08	.46	3.20	5.79	12.26	47.34	40.43	1.72	3.01	119.61
1938	.98	1.07	1.27	3.08	2.66	9.00	.19	16.96	23.74	23.33	11.92	14.01	108.21
1939	1.18	.97	.47	.18	.16	1.40	-2.31	23.36	15.74	7.63	6.32	3.81	58.91
1940	2.28	.97	.77	1.08	2.86	8.10	13.89	18.46	15.94	1.83	.32	.81	67.31
1941	2.28	.77	.87	.58	1.26	1.20	15.69	18.56	41.04	23.73	15.32	4.01	125.31
1942	4.68	2.17	2.17	.28	.16	1.40	-.21	22.66	17.64	11.93	10.12	3.01	76.01
1943	3.48	2.77	.77	.48	11.66	3.20	-.21	21.66	18.64	2.53	1.72	1.21	67.91
1944	1.28	1.77	1.67	1.48	1.46	7.50	9.09	25.46	25.14	23.73	1.02	1.21	100.81
1945	1.18	1.47	1.97	1.18	1.26	13.60	1.09	14.96	28.04	17.33	15.32	3.01	100.41
1946	1.68	1.57	1.17	1.58	6.06	2.20	-2.31	22.36	24.14	17.93	3.02	19.61	99.01
1947	9.68	1.37	.47	.48	-.04	1.70	.49	15.16	30.64	21.33	4.12	1.41	86.81
1948	1.58	1.17	2.17	2.08	4.46	13.80	.89	16.46	23.04	17.33	9.12	.91	93.01
1949	1.78	2.67	1.57	1.28	6.66	13.20	1.59	24.66	15.24	1.43	1.92	1.61	73.61
1950	.78	-.13	-.13	-.12	-.04	-.50	-3.91	12.86	7.14	7.23	5.32	2.01	30.01
1951	.78	.37	.17	-.02	-.04	-.50	-3.91	11.76	4.34	-.27	-.08	-3.39	9.21
1952	-.22	-1.53	-.23	1.48	7.66	4.20	5.29	-2.14	-18.66	8.83	9.12	9.41	23.21
1953	6.48	6.07	6.57	7.18	6.66	6.80	2.59	18.96	3.24	5.53	6.52	2.31	78.91
1954	.18	-.03	2.57	2.38	1.16	.60	-4.01	11.86	4.44	-.27	-.08	.11	18.91
1955	.18	-.03	.17	-.02	-.04	-.40	-21.91	13.56	9.24	4.43	3.32	1.51	10.01
1956	2.98	4.47	1.77	3.08	1.46	-2.80	1.19	17.36	4.14	2.03	1.42	1.21	38.31
1957	.08	-.03	-.03	-.02	-.04	-.50	-4.01	1.66	11.04	1.63	.02	.11	9.91
1958	.08	1.87	3.27	3.38	3.06	2.90	-4.01	11.96	4.44	-15.67	12.32	.21	23.81
1959	3.78	2.77	3.27	3.38	3.36	-.40	-4.01	11.86	4.54	-.17	.12	.01	28.51
1960	.08	-.03	-.03	-.02	-.14	-.40	-4.01	11.86	4.44	-.17	.02	.01	11.61
1961	.08	-.03	-.03	-.02	-.14	-.50	-4.01	11.86	4.34	-.17	.02	.01	11.41
1962	.08	-.03	-.03	-.02	-.14	-.50	-4.01	29.66	44.04	41.53	2.92	.01	113.51
1963	.08	-.03	-.03	-.02	-.04	-4.60	-3.51	14.06	12.34	-.07	.02	.01	18.21
1964	.08	-.03	-.03	-.02	-.14	-.50	-4.01	9.06	13.34	.63	.02	.01	18.41
1965	.08	-.03	-.03	-.02	-.14	-.50	-4.01	14.56	5.64	5.43	.02	.01	21.01
1966	.08	-.03	-.03	-.02	-.14	-.00	-3.21	12.16	4.34	-.07	.02	.01	13.11
1967	.08	-.03	-.03	-.02	-1.64	-20.20	-5.21	13.66	1.24	6.73	.02	.01	-5.39
1968	.28	-.03	-.03	-.02	-.14	-.40	-5.11	11.86	2.94	.73	.02	.01	10.11
1969	.08	-.03	-.03	-.02	-.14	.70	-3.11	10.46	3.04	3.33	.02	.01	14.31
1970	-.02	-.03	-.03	-.02	-.14	-.40	-5.61	11.26	4.24	-.07	-.08	.01	9.11
1971	-.02	-.03	-.03	-.02	-.04	-.40	-4.01	11.86	4.24	-.07	-.08	.01	11.41
1972	-.02	-.02	-.02	-.03	-.04	-4.42	-2.75	-.02	-.36	-.08	-.04	.02	-7.78
1973	-.03	-.02	-.03	-.02	-.01	-.37	-.02	6.12	-3.56	-.01	-.02	-.01	2.02
1974	0.00	0.00	0.00	3.54	-1.00	-3.63	-1.90	-.03	-.01	0.00	0.00	-.02	-3.05
1975	-.01	-.01	-.01	-.02	-.03	0.00	-.01	-.03	-.02	-.01	-.02	-.04	-.21

UNITS - 1000AF



YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1929	.02	.13	.03	.12	.14	22.30	39.11	11.74	55.16	17.87	.08	5.29	151.99
1930	6.32	6.43	2.93	1.72	15.04	14.30	14.01	0.00	0.00	.27	.08	0.00	61.10
1931	13.62	3.13	2.83	3.32	4.84	2.30	15.41	0.00	0.00	.27	.08	0.00	45.80
1932	.02	.13	.03	.12	.14	9.20	26.91	12.94	0.00	.27	.08	0.00	49.84
1933	.02	.13	.03	.12	.14	3.40	22.71	81.24	0.00	.27	.08	4.49	112.63
1934	.82	1.73	1.13	1.02	2.54	.60	4.01	0.00	0.00	.27	.08	0.00	12.20
1935	.02	.13	.03	.12	.14	2.90	23.41	18.04	76.66	.27	.08	0.00	121.80
1936	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	.27	.08	0.00	5.40
1937	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	21.87	.08	0.00	27.00
1938	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	9.67	.08	6.99	21.79
1939	.02	.13	.83	1.02	.24	3.50	4.01	0.00	0.00	.27	.08	0.00	10.10
1940	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	.27	.08	0.00	5.40
1941	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	8.57	.08	0.00	13.70
1942	.02	.13	.03	1.02	1.04	1.30	12.71	137.34	19.06	.27	.08	0.00	173.00
1943	.02	.13	.03	.12	.14	29.60	10.01	0.00	24.96	.27	.08	0.00	65.36
1944	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	13.37	.08	0.00	18.50
1945	.02	.13	.03	.12	.14	.60	4.01	0.00	0.00	8.67	.08	0.00	15.26
1946	0.00	.10	.07	.10	.09	1.49	4.06	0.00	32.38	.66	.12	0.00	39.07
1947	0.00	2.00	1.32	1.17	9.43	7.33	5.94	0.00	23.19	7.50	.13	0.00	58.01
1948	0.00	.12	.16	.11	.09	18.04	4.07	0.00	2.75	1.45	.08	0.00	26.87
1949	0.00	.10	.13	.15	.38	51.80	8.72	0.00	0.00	.38	.13	0.00	61.79
1950	0.00	.13	.13	.12	.07	.58	3.97	0.00	0.00	.34	.15	0.00	5.49
1951	0.00	.13	.11	.10	.11	.57	3.97	0.00	0.00	.36	.15	3.48	8.98
1952	.28	1.59	1.51	1.19	2.43	6.27	5.89	7.52	22.08	.36	.14	.02	49.28
1953	0.00	.08	.06	.11	.09	.53	4.04	0.00	0.00	.41	.13	.02	5.47
1954	0.00	.11	.06	.15	.12	.51	4.07	0.00	0.00	.38	.18	.02	5.60
1955	0.00	.13	.01	.12	.15	.53	28.78	0.00	6.96	.34	.13	1.68	38.83
1956	.47	.82	3.46	2.09	3.71	8.24	4.12	0.00	0.00	.32	.09	0.00	23.32
1957	0.00	.10	.09	.09	.11	.58	4.07	26.45	22.82	.28	.08	0.00	54.68
1958	.02	.13	.07	.13	.16	.53	4.08	0.00	0.00	24.68	.04	.02	29.86
1959	.00	.14	.08	.11	.19	.48	4.09	0.00	0.00	.29	.05	.07	5.49
1960	0.00	.11	.10	.08	.22	.52	4.10	0.00	0.00	.27	.04	.03	5.48
1961	0.00	.08	.08	.07	.19	.55	4.07	0.00	0.00	.23	.02	.04	5.32
1962	0.00	.10	.10	.09	.21	.57	4.06	18.50	122.66	32.88	.03	.08	179.28
1963	.04	.12	.10	.08	.25	5.74	6.89	0.00	28.68	.18	.06	.08	42.21
1964	.02	.12	.10	.10	.21	.57	4.07	0.00	0.00	.21	.06	.05	5.50
1965	0.00	.10	.09	.08	.20	.57	4.07	0.00	50.25	5.48	.07	.07	61.00
1966	.01	.12	.10	.08	.25	7.16	7.55	0.00	0.00	.14	.06	.06	15.53
1967	0.00	.12	.11	.11	1.76	30.92	9.44	0.00	103.66	5.35	.09	.07	151.63
1968	.05	.13	.09	.08	.21	.48	5.19	0.00	15.40	.18	.08	.12	22.00
1969	.05	.13	.10	.09	.21	.45	4.11	0.00	0.00	41.19	.11	.07	46.49
1970	.09	.11	.11	.09	.18	.45	5.67	0.00	0.00	.14	.15	.06	7.06
1971	.10	.10	.10	.10	.10	.46	4.22	73.26	53.36	.24	.12	.04	132.20
1972	.10	.10	.10	.10	.10	4.52	2.87	.16	1.86	.24	.12	.04	10.31
1973	.10	.10	.10	.10	.10	.46	.10	.16	3.68	.10	.10	.10	5.19
1974	.10	.10	.10	1.37	12.72	8.31	8.28	.16	.10	.10	.10	.10	31.53
1975	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	.10	1.19
AVG	.48	.44	.36	.38	1.27	5.38	7.77	8.25	14.20	4.42	.09	.49	43.52



*Belle Fourche River  
at State Line  
6-4285*



BELLE FOURCHE RIVER AT STATE LINE

HISTORICAL FLOW STA 6-4285

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000 AF													
1947	0.00	0.00	2.14	2.80	10.96	33.06	27.13	9.36	31.20	8.16	1.64	.55	127.00
1948	.87	.99	.81	.71	1.35	30.41	8.28	4.39	13.82	9.96	1.73	.03	73.34
1949	.04	.57	.51	1.01	.81	31.57	28.07	10.87	7.54	2.51	.04	0.00	83.53
1950	.17	.36	.16	.00	.27	3.15	35.03	27.17	4.49	1.08	.38	.00	72.27
1951	.29	.53	.56	.50	.86	1.49	1.55	.86	1.98	.88	.38	8.66	19.87
1952	1.15	.78	.28	.13	2.43	8.98	17.88	5.89	1.94	1.80	1.12	.90	43.29
1953	0.00	.01	.04	.20	.17	3.95	3.15	13.58	17.08	5.22	15.43	2.51	61.34
1954	.41	.65	.51	.29	.88	1.88	3.51	1.35	1.51	1.13	1.44	0.00	13.56
1955	0.00	.21	.33	.09	.03	1.17	21.45	18.12	13.55	5.64	4.84	6.47	71.90
1956	2.09	.43	2.37	1.15	.90	10.69	8.29	3.55	3.05	1.37	1.08	.01	34.97
1957	0.00	.69	.32	.08	.15	5.77	3.29	4.70	9.39	4.79	2.11	.87	32.16
1958	.20	.45	.49	.36	.73	3.13	8.58	6.12	1.98	4.07	2.90	.09	29.10
1959	0.00	.18	.17	.02	.01	8.68	7.05	3.96	3.08	6.13	2.22	.00	31.50
1960	0.00	.06	.32	.01	.04	15.69	5.87	6.31	1.88	.18	1.65	.29	32.29
1961	0.00	0.00	0.00	0.00	.36	3.02	1.08	.19	.71	.20	.01	0.00	5.56
1962	0.00	0.00	0.00	.34	6.50	13.76	13.20	42.71	37.14	13.01	2.57	1.19	130.42
1963	1.55	1.39	1.28	.28	3.58	10.29	15.66	13.65	14.79	2.76	3.28	2.56	71.07
1964	.63	1.10	.53	.65	.71	2.14	5.09	6.67	27.61	7.86	4.96	1.32	59.26
1965	1.22	1.38	.96	1.21	1.38	3.81	19.62	23.83	11.75	4.81	1.40	1.14	72.51
1966	1.84	1.61	1.38	1.12	.64	7.82	5.40	3.27	4.93	7.54	2.57	.70	38.82
1967	1.03	1.58	1.08	.75	1.69	15.80	6.03	19.71	13.20	3.67	5.73	4.49	74.76
1968	1.22	1.25	1.15	1.15	1.44	9.33	3.33	3.05	5.13	4.32	3.82	1.42	36.61
1969	.87	.99	.89	.42	.16	9.80	11.93	23.27	5.41	7.86	4.24	2.29	68.12
1970	1.21	1.33	1.14	.85	1.03	3.17	14.07	25.02	12.58	5.06	4.66	1.17	71.29
1971	1.17	1.57	1.43	.73	6.13	8.94	49.00	16.73	14.98	5.66	5.43	2.34	114.11
1972	7.25	3.92	1.51	1.77	4.27	57.26	9.52	18.40	21.57	6.74	5.66	3.03	140.90
1973	5.87	2.20	1.50	2.83	2.63	7.05	14.95	15.63	15.83	6.02	4.98	2.48	81.97
1974	2.62	2.87	2.52	3.65	4.79	9.17	10.58	5.97	3.22	7.77	6.18	2.00	61.34
1975	1.49	1.70	.81	.69	1.21	6.18	14.36	26.35	9.46	6.19	6.06	2.84	77.34
AVG	1.14	.99	.87	.82	1.93	11.28	12.86	12.44	10.72	4.91	3.44	1.70	63.11



# BELLE FOURCHE RIVER AT STATE LINE

## SUMMATION OF MONTHLY DEPLETIONS STA 6-4285

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							UNITS - 1000AF						
1947	-6.52	-1.43	.28	.07	.68	9.94	2.64	-4.28	.82	-3.33	-2.97	-1.48	-5.59
1948	.08	-.13	.18	-.03	.68	10.84	-.76	-4.58	13.32	7.17	.63	-1.38	26.01
1949	.18	-.13	.18	-.03	-.22	16.74	7.64	-1.18	.32	.27	-2.67	-1.48	19.61
1950	.08	-.13	.08	-.03	-.22	-1.06	3.74	1.62	-3.68	-5.03	-3.97	-1.38	-9.99
1951	.08	-.03	.08	-.03	-.22	-1.26	-1.06	-4.78	-3.98	-4.73	-3.47	3.32	-16.09
1952	.08	-.03	.08	-.03	-.22	-1.16	-1.16	-2.88	-3.78	-5.03	-.97	-1.08	-16.19
1953	.18	-.03	.18	-.03	-.22	-.96	1.54	-.38	1.52	-.03	2.73	.42	4.91
1954	.18	-.13	.18	-.03	-.22	-1.06	-1.36	-4.48	-3.38	-4.03	-3.17	-1.38	-18.89
1955	.18	-.03	.18	-.03	-.12	-.86	1.64	7.12	6.82	1.67	1.33	6.12	24.01
1956	.18	-.03	.08	.07	-.12	-.06	.24	.32	.32	.57	.23	.02	1.81
1957	.18	-.03	.08	-.03	-.12	-.06	.24	.32	.32	.57	.23	.02	1.71
1958	.18	.07	.08	-.03	-.02	.04	.24	.32	.32	.57	.23	.02	2.01
1959	.18	-.03	.08	.07	-.02	.04	.34	.22	.32	.67	.23	.02	2.11
1960	.18	.07	.08	.07	-.02	.04	.24	.22	.32	.57	.13	.02	1.91
1961	.18	-.03	.08	.07	-.12	1.44	-1.86	-4.28	-1.78	-5.73	-4.07	-1.28	-17.39
1962	.18	-.03	.08	.07	-.12	-.46	.04	-1.08	-.38	.17	.03	-.18	-1.69
1963	.18	-.03	.08	-.03	-.12	-.36	.04	-.88	-.28	.17	.03	-.18	-1.39
1964	.18	-.03	.08	.07	-.12	-.16	.34	-.78	.02	.27	.03	-.08	-.19
1965	.18	-.03	-.02	.07	-.12	-.06	.24	-.38	-.08	.37	.13	.02	.31
1966	.18	-.03	-.02	.07	-.02	-.06	.34	-.38	.22	.27	.03	-.08	.51
1967	.18	-.03	-.02	-.03	-.12	.04	.24	-.28	.12	.27	.23	.02	.61
1968	.18	-.03	-.02	.07	-.02	-.06	.24	-.28	.12	.47	.23	.02	.91
1969	.08	-.03	-.02	.07	-.12	-.06	.24	-.18	.22	.27	.33	.12	.91
1970	.08	-.03	-.02	-.03	-.02	.04	.14	.12	.22	.37	.23	.12	1.21
1971	.08	-.03	-.02	-.03	-.02	.04	.14	.12	.22	.37	.23	.12	1.21
1972	-.06	-.03	-.02	-.02	-.02	.05	.09	.08	.16	.28	.18	.09	.89
1973	.04	-.02	-.02	-.02	-.02	.02	.07	.04	.09	.18	.12	.06	.57
1974	.03	-.02	-.01	-.01	-.01	.01	.04	-.00	.03	.08	.07	.04	.24
1975	.01	-.01	-.01	-.01	-.01	.00	.01	-.04	-.03	-.02	.01	.01	-.08



BELLE FOURCHE RIVER AT STATE LINE

1975 DEPLETION LEVEL STA 6-4285

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1947	6.52	1.43	1.86	2.73	10.28	23.12	24.49	13.64	30.38	11.49	4.61	2.03	132.59
1948	.79	1.12	.64	.74	.67	19.57	9.04	8.97	.50	2.79	1.10	1.41	47.33
1949	0.00	.70	.34	1.04	1.03	14.83	20.43	12.05	7.22	2.24	2.71	1.48	64.06
1950	.09	.49	.09	.03	.49	4.21	31.29	25.55	8.17	6.11	4.35	1.38	82.25
1951	.21	.56	.49	.53	1.08	2.75	2.61	5.65	5.96	5.61	5.17	5.34	35.95
1952	1.07	.81	.21	.16	2.65	10.14	19.04	8.77	5.72	6.83	2.09	1.98	59.47
1953	0.00	.04	0.00	.23	.39	4.91	1.61	13.96	15.56	5.25	12.70	2.09	56.74
1954	.23	.78	.33	.32	1.10	2.94	4.87	5.83	4.89	5.16	4.61	1.38	32.44
1955	0.00	.25	.15	.12	.15	2.03	19.81	11.00	6.73	3.97	3.51	.35	48.07
1956	1.91	.46	2.29	1.08	1.02	10.75	8.05	3.23	2.73	.80	.85	0.00	33.17
1957	0.00	.72	.24	.11	.27	5.83	3.05	4.38	9.07	4.22	1.88	.85	30.62
1958	.02	.38	.42	.39	.76	3.09	8.34	5.80	1.66	3.50	2.67	.07	27.08
1959	0.00	.21	.10	0.00	.03	8.64	6.71	3.74	2.76	5.46	1.99	0.00	29.63
1960	0.00	0.00	.24	0.00	.06	15.65	5.63	6.09	1.56	0.00	1.52	.27	31.02
1961	0.00	.03	0.00	0.00	.48	1.58	2.94	4.47	2.49	5.92	4.07	1.28	23.27
1962	0.00	.03	0.00	.27	6.62	14.22	13.16	43.79	37.52	12.84	2.54	1.37	132.36
1963	1.37	1.42	1.20	.31	3.70	10.65	15.62	14.53	15.07	2.59	3.25	2.74	72.46
1964	.45	1.13	.45	.58	.83	2.30	4.75	7.45	27.59	7.59	4.93	1.40	59.45
1965	1.04	1.41	.99	1.14	1.50	3.87	19.38	24.21	11.83	4.44	1.27	1.12	72.20
1966	1.66	1.64	1.40	1.05	.66	7.88	5.06	3.65	4.71	7.27	2.54	.78	38.31
1967	.85	1.61	1.10	.78	1.81	15.76	5.79	19.99	13.08	3.40	5.50	4.47	74.15
1968	1.04	1.28	1.17	1.08	1.46	9.39	3.09	3.33	5.01	3.85	3.59	1.40	35.70
1969	.79	1.02	.92	.35	.28	9.86	11.69	23.45	5.19	7.59	3.91	2.17	67.21
1970	1.13	1.36	1.16	.88	1.05	3.13	13.93	24.90	12.36	4.69	4.43	1.05	70.08
1971	1.09	1.60	1.45	.76	6.15	8.90	48.86	16.61	14.76	5.29	5.20	2.22	112.89
1972	7.19	3.95	1.53	1.74	4.29	57.21	9.43	18.32	21.42	6.46	5.48	2.94	140.01
1973	5.83	2.22	1.52	2.85	2.65	7.03	14.88	15.59	15.74	5.84	4.86	2.42	81.40
1974	2.59	2.89	2.53	3.66	4.80	9.16	10.54	5.97	3.19	7.69	6.11	1.96	61.10
1975	1.48	1.71	.82	.70	1.22	6.18	14.35	26.39	9.49	6.21	6.05	2.83	77.42
AVG	1.29	1.08	.82	.82	1.98	10.19	12.36	13.15	10.43	5.35	3.91	1.68	63.05



SOUTH DAKOTA



*Missouri River*  
*at Pierre*  
*6-4400*



## MISSOURI RIVER OF FISHES

## HISTORICAL FLOWS STA 6-440

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
							Units - 1000 AF						
1935	0.00	0.00	0.00	303.00	433.00	730.00	1223.00	1091.00	3385.00	2748.00	871.00	501.00	11318.00
1936	483.00	335.00	471.00	350.00	338.00	1549.00	1561.00	1763.00	2358.00	1200.00	655.00	486.00	11649.00
1937	497.00	606.00	340.00	341.00	289.00	831.00	1425.00	960.00	3256.00	2742.00	749.00	390.00	12449.00
1938	610.00	442.00	265.00	381.00	293.00	2064.00	845.00	953.00	3028.00	4170.00	1591.00	1297.00	15942.00
1939	972.00	473.00	541.00	642.00	423.00	1434.00	2624.00	1873.00	2934.00	1992.00	854.00	538.00	16300.00
1940	547.00	610.00	415.00	201.00	250.00	394.00	1116.00	1291.00	1752.00	1208.00	1247.00	755.00	9892.00
1941	811.00	377.00	454.00	339.00	332.00	546.00	1515.00	1253.00	3201.00	1407.00	1326.00	1359.00	12962.00
1942	1125.00	733.00	424.00	348.00	449.00	1071.00	1416.00	2477.00	3659.00	2054.00	1240.00	1144.00	16140.00
1943	1255.00	1033.00	321.00	445.00	545.00	2284.00	4978.00	1470.00	3882.00	3717.00	1632.00	1716.00	23298.00
1944	1665.00	1530.00	1013.00	834.00	700.00	669.00	4131.00	1315.00	5075.00	3296.00	1619.00	1271.00	23198.00
1945	1405.00	1381.00	917.00	905.00	555.00	2799.00	1134.00	833.00	2410.00	2678.00	1395.00	1431.00	18243.00
1946	1645.00	973.00	455.00	440.00	424.00	1347.00	861.00	1299.00	2643.00	2205.00	1206.00	1585.00	15133.00
1947	1632.00	821.00	487.00	546.00	656.00	1521.00	3437.00	2642.00	4079.00	3251.00	2230.00	1469.00	23211.00
1948	2162.00	1357.00	764.00	683.00	556.00	1968.00	2865.00	1980.00	3947.00	3495.00	2188.00	1740.00	23705.00
1949	2236.00	1586.00	520.00	745.00	655.00	2192.00	3893.00	1836.00	2334.00	1811.00	1607.00	1542.00	20987.00
1950	1619.00	1056.00	514.00	442.00	439.00	1198.00	6070.00	2355.00	2377.00	2487.00	1841.00	1798.00	22286.00
1951	1924.00	1337.00	770.00	918.00	708.00	1017.00	3313.00	1794.00	2662.00	2183.00	2242.00	2298.00	21166.00
1952	2397.00	1885.00	739.00	617.00	1039.00	860.00	8588.00	2532.00	2672.00	1626.00	1675.00	1958.00	26488.00
1953	1724.00	1219.00	541.00	735.00	650.00	1234.00	1190.00	1719.00	3957.00	2068.00	1768.00	1725.00	18610.00
1954	2036.00	1470.00	605.00	530.00	621.00	1173.00	1411.00	1571.00	1296.00	1635.00	2406.00	2329.00	17083.00
1955	1990.00	826.00	450.00	436.00	412.00	573.00	782.00	2304.00	1520.00	1927.00	1513.00	1838.00	14581.00
1956	1975.00	1161.00	532.00	543.00	374.00	1104.00	1697.00	1747.00	2017.00	1944.00	1773.00	1247.00	16114.00
1957	987.00	887.00	629.00	635.00	734.00	903.00	1115.00	1559.00	1150.00	1103.00	1297.00	1060.00	12059.00
1958	862.00	627.00	633.00	742.00	754.00	1040.00	1342.00	1315.00	1761.00	1181.00	578.00	1642.00	12587.00
1959	1472.00	1116.00	783.00	454.00	793.00	1183.00	1240.00	1347.00	1347.00	1464.00	1253.00	1230.00	13712.00
1960	1142.00	679.00	1059.00	739.00	329.00	317.00	164.00	343.00	873.00	1572.00	1677.00	1443.00	10354.00
1961	1420.00	500.00	882.00	416.00	358.00	486.00	1507.00	1541.00	1117.00	1663.00	1650.00	898.00	12438.00
1962	716.00	395.00	487.00	320.00	152.00	166.00	444.00	1076.00	259.00	334.00	710.00	490.00	5589.00
1963	823.00	700.00	939.00	685.00	760.00	666.00	1086.00	1806.00	1562.00	1626.00	1483.00	992.00	13328.00
1964	1034.00	892.00	1345.00	1528.00	1033.00	1266.00	1179.00	928.00	1422.00	1708.00	1871.00	815.00	14761.00
1965	789.00	1127.00	1330.00	1097.00	509.00	922.00	950.00	1141.00	1062.00	1415.00	1713.00	1552.00	14057.00
1966	795.40	980.43	1278.00	2005.00	1020.00	1016.00	1019.00	1488.00	1777.00	1577.00	1742.00	939.37	15641.20
1967	1001.00	923.70	1290.00	1146.00	1039.00	982.02	1617.00	1771.00	1392.00	1467.00	1617.00	1108.00	15353.72
1968	1326.00	1005.00	1205.00	1240.00	1620.00	1456.00	1562.00	1711.00	1557.00	1962.00	1819.00	1540.00	18013.00
1969	1023.00	843.17	1457.00	1688.00	643.57	1105.00	1576.00	1528.00	1744.00	1873.00	2941.00	2375.00	19086.74
1970	1774.00	1389.00	1421.00	1911.00	1322.00	1439.00	1283.00	1254.00	1774.00	2531.00	2427.00	2006.00	21036.00
1971	1627.00	1545.00	1747.00	1419.00	1150.00	1346.00	1969.00	2427.00	2320.00	2730.00	2860.00	2371.00	24021.00
1972	2162.00	2251.00	1632.00	1490.00	1313.00	1758.00	2283.00	1725.00	2128.00	2238.00	2557.00	2488.00	24025.00
1973	2320.00	1761.00	1175.00	1175.00	1312.00	939.57	983.29	1295.00	1377.00	1670.00	2031.00	1302.00	17820.86
1974	1276.00	610.31	1191.00	1258.00	1151.00	1138.00	1482.00	1599.00	1556.00	2207.00	1983.00	1879.00	17330.31
1975	1488.00	1151.00	1443.00	1398.00	991.34	1425.00	1463.00	1747.00	2067.00	2978.00	3185.00	3174.00	22550.34
AVG	1334.57	1002.04	834.29	816.20	716.41	1201.50	1960.98	1583.63	2270.66	2076.66	1683.46	1459.06	16939.47



## SUMMATION OF MONTHLY DEPLETIONS YELLOWSTONE RIVER &amp;

TRIBES - L MISS. KNIFE, HEART, CANNONBALL, BELLE F. CHEYENNE

YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNITS - 1000AF													
1935	-41.97	-70.00	-53.91	-86.44	-74.25	-35.53	-8.18	124.43	1012.72	321.35	34.31	-13.30	1098.24
1936	-49.67	-52.90	-42.61	-128.04	-147.15	-29.23	27.72	230.63	664.02	270.55	119.11	-19.80	842.64
1937	-14.57	-26.00	-37.61	-154.44	-161.55	-71.13	27.72	243.03	748.22	378.95	14.31	5.90	952.84
1938	-27.17	-58.70	-53.91	-133.14	-133.75	-25.73	3.02	220.23	659.02	387.85	54.71	63.90	956.34
1939	5.53	-24.00	-41.11	-138.34	-159.75	30.37	10.22	240.63	396.92	317.95	83.71	26.40	747.74
1940	-19.37	23.90	-9.31	-96.84	-84.25	-31.23	1.62	126.93	221.32	260.15	23.11	20.00	436.04
1941	57.53	-6.90	41.79	-100.74	-105.65	-43.43	46.82	318.93	524.82	230.15	181.21	93.00	1237.54
1942	69.83	-1.70	-44.31	-169.04	-160.25	-28.63	73.32	313.53	533.82	267.15	28.21	30.10	912.04
1943	-1.77	-5.40	-13.01	-164.64	-75.45	89.67	6.22	68.73	710.12	259.05	118.71	32.50	1024.74
1944	-18.27	-4.50	-39.21	-170.64	-159.35	-87.23	-104.88	215.03	730.82	356.75	31.31	18.10	767.94
1945	-13.17	-14.10	-33.91	-90.04	-92.95	100.57	-43.28	159.23	592.52	306.55	97.61	75.80	1044.84
1946	7.13	-44.00	-60.51	-133.74	-136.65	-36.53	60.62	168.03	513.52	285.25	11.61	91.40	726.14
1947	27.73	-23.60	-36.31	-165.74	-146.45	-10.83	-80.68	254.43	644.22	316.15	117.41	1.00	897.34
1948	15.33	-13.60	-42.91	-182.74	-125.55	62.77	-26.38	95.93	663.82	281.05	54.11	44.10	825.94
1949	.63	-8.90	-17.51	-120.74	-116.35	48.67	40.62	201.13	467.42	238.05	6.31	38.30	777.64
1950	49.13	20.30	-3.61	-111.84	-99.45	-72.73	-22.38	114.83	470.22	243.75	68.01	59.00	715.24
1951	56.53	-2.70	-18.81	-153.04	-134.55	-97.13	18.22	231.23	505.32	114.65	168.11	14.30	702.14
1952	-15.77	-49.10	-73.11	-146.64	-154.45	-130.53	-57.68	95.73	39.02	161.85	89.11	47.20	-194.36
1953	31.73	.50	22.49	-54.34	-55.85	-39.83	38.42	93.33	246.02	164.65	64.11	29.10	540.34
1954	9.83	25.30	39.29	-89.24	-112.15	-97.13	17.92	189.33	187.42	203.55	57.51	35.10	466.74
1955	17.33	13.80	41.09	-37.24	-60.05	10.97	77.32	176.03	256.32	150.45	48.21	25.80	711.44
1956	-8.97	-10.80	37.89	-22.24	-23.25	19.27	-87.88	48.43	143.42	132.15	60.41	72.30	360.74
1957	51.73	59.50	47.69	-103.84	-102.95	-71.93	-174.18	13.03	411.52	282.15	45.81	24.50	483.04
1958	74.73	61.10	24.99	-32.84	-40.25	-41.53	-12.78	146.53	172.12	143.05	183.01	128.40	806.54
1959	102.63	74.90	82.29	-42.44	-119.45	-70.43	5.52	79.43	236.22	143.55	21.21	12.30	525.74
1960	43.33	2.80	15.59	-66.94	-84.95	-21.83	-14.78	41.33	124.12	170.05	21.71	11.60	222.04
1961	-42.57	-78.80	-65.31	-53.94	-37.75	-37.23	-61.38	59.63	102.52	165.45	-14.69	70.00	5.94
1962	-4.87	14.50	25.09	-28.04	71.85	150.27	58.52	125.03	314.82	167.75	90.41	65.60	1050.94
1963	55.83	18.70	3.69	-135.24	-96.35	-106.63	-129.78	-16.47	501.02	236.85	27.71	45.00	404.34
1964	46.03	38.90	35.79	-54.84	-117.75	-77.73	-46.88	106.13	282.42	94.85	52.81	40.20	409.94
1965	32.13	16.10	7.39	-94.94	-83.55	-43.03	-99.38	-54.47	344.02	185.65	121.71	30.80	362.44
1966	64.33	-155.30	-31.11	-47.84	-125.15	-176.83	-83.78	-12.17	-4.78	172.65	-3.49	-40.10	-443.56
1967	-70.97	-46.00	17.59	-64.54	-58.75	-33.43	-214.38	-181.67	8.32	446.05	128.11	32.50	-37.16
1968	22.43	40.90	135.49	61.06	-26.55	9.57	-31.68	40.33	226.22	51.45	-22.09	44.70	551.84
1969	15.43	40.70	38.89	-38.44	-49.85	6.87	-54.38	-54.27	-10.28	169.95	116.81	75.60	257.04
1970	60.63	40.30	101.99	8.56	-24.05	-103.03	-179.58	-73.67	47.92	220.15	29.11	-23.50	104.84
1971	-5.47	22.10	82.79	-51.04	-87.85	-1.53	9.82	132.63	105.02	-66.65	15.21	-51.60	103.44
1972	88.53	72.60	32.81	-101.63	-116.29	-64.36	164.88	88.90	96.82	38.88	20.70	-2.65	319.19
1973	42.05	92.41	10.54	-30.44	-55.78	-48.20	2.38	154.22	167.69	-16.36	-11.10	61.09	368.45
1974	47.12	79.65	-50.13	-83.68	-39.74	30.71	74.14	14.78	75.98	-15.19	13.54	2.80	149.97
1975	46.09	34.75	50.80	-19.51	-46.16	-47.90	-44.12	63.68	105.34	-267.23	240.01	116.83	232.58





